

Kentucky Performance Rating for Educational Progress



2014–15 Yearbook

Version 1.1



PEARSON

Table of Contents

Glossary of Terms.....	iii
Appendix A. Participation Rates.....	1
Appendix B. Score Reports.....	2
Appendix C. Item Mean Summaries.....	17
Appendix D. Item-Total Correlation Summaries.....	18
Appendix E. Differential Item Functioning Summaries.....	19
Appendix F. Item Response Theory Parameter Summary.....	21
Appendix G. Raw Score to Scale Score Tables.....	22
Appendix H. Raw Score to Scale Score Tables—Subdomain.....	36
Appendix I. Score Frequency Distributions.....	71
Appendix J. Score Frequency Distributions—Subdomain.....	78
Appendix K. Scale Score Descriptive Statistics.....	94
Appendix L. NPR Frequency Distributions.....	106
Appendix M. Performance Level Rates.....	112
Appendix N. Reliability.....	124
Appendix O. Scoring Metrics for K-PREP Constructed-Response Items.....	142
Appendix P. On-Demand Writing Score Distribution and Rater Agreement.....	145
Appendix Q. Accuracy and Consistency.....	146
Appendix R. Principal Components Analysis—Scree Plots.....	158
Appendix S. Operational Constructed-Response Item Omit Rates.....	165

Glossary of Terms

Classification accuracy: The extent to which achievement classifications from test scores match classifications if test scores contained no error of measurement.

Classification consistency: The extent to which achievement classifications from test scores match classifications from test scores of a parallel form of the same test.

Constructed-response item: Test item that requires a form of written response by the examinee.

Differential item functioning: The difference in performance on an item between subgroups of students, after controlling for differences in group achievement or score level.

Field-test items: Items used on a test for gathering performance data while not contributing to examinees' test scores.

Item response theory: Measurement theory that prescribes relationships of item difficulty and examinee proficiency for indices of test performance.

Item-test correlation: Correlation between item score and total test score.

Multiple-choice item: Test item that requires selection of response from a group of options.

Percentile rank: A numerical value indicating relative standing of performance among other examinees.

Performance level: A categorization of achievement from test performance.

P-value: The proportion of correct responses to an item (for multiple-choice items).

Quartile: A group of observations representing one-fourth of the total group.

Rasch model: Measurement model that factors proficiency and item difficulty in determining probability of item success.

Raw score: The sum of points for a test, or subdomain.

Reliability: The consistency of results obtained from a measurement.

Scale score: A score derived from a transformation of a raw score.

Standard error of measurement: A statistic, in classical test theory, expressing the interval of an examinee's true score.

Standard setting: The process of setting cut points that delineate levels of achievement.

Subdomain: A set of knowledge and skills within a larger content space.

True score: An examinee's expected score resulting from multiple replications of measurement.

Appendix A. Participation Rates¹

Students	Subgroup	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 10	Grade 11
All	Students Tested	51,417	49,962	50,194	49,992	49,456	50,737	48,932	45,428
Gender	Female	48.4%	48.8%	48.9%	48.9%	48.4%	48.6%	48.6%	49.8%
	Male	51.6%	51.2%	51.1%	51.1%	51.6%	51.4%	51.4%	50.2%
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	6.6%	6%	5.4%	5.3%	5.1%	4.7%	4.1%	3.7%
	Asian	1.6%	1.6%	1.7%	1.6%	1.4%	1.5%	1.3%	1.3%
	Native Hawaiian/Pacific Islander	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
	Black/African American	10%	10%	10%	10.4%	10.7%	10.4%	10.6%	10.5%
	American Indian	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
	White	76.8%	77.7%	78.6%	78.5%	78.7%	79.4%	80.5%	81%
	Other	3.8%	3.5%	2.9%	2.8%	2.7%	2.5%	2.2%	2%
	Missing	1.1%	1%	1.1%	1.1%	1.2%	1.3%	1.1%	1.2%
Migrant	Non-Migrant	99.7%	99.7%	99.7%	99.8%	99.7%	99.8%	99.8%	99.9%
	Migrant	0.3%	0.3%	0.3%	0.2%	0.3%	0.2%	0.2%	0.1%
LEP	Non-LEP	95.4%	97.1%	98%	98.4%	98.2%	98.1%	98.6%	98.9%
	LEP	4.6%	2.9%	2%	1.6%	1.8%	1.9%	1.4%	1.1%
Economic Disadvantage	Free Lunch	57.8%	56%	54.6%	54.2%	53.7%	52.2%	48.4%	44.9%
	Reduced-Price Lunch	5.4%	5.6%	5.6%	5.7%	5.6%	5.7%	5.7%	5.7%
	Regular Lunch	36.8%	38.3%	39.7%	40.1%	40.7%	42.1%	45.9%	49.4%
IEP	Non-IEP	86.6%	87.1%	88.1%	88.8%	90%	90.2%	91.1%	92.1%
	IEP	13.4%	12.9%	11.9%	11.2%	10%	9.8%	8.9%	7.9%

¹ Alternate K-PREP students are included, but participation rates for Alternate K-PREP grades 9 and 12 are not provided.

Appendix B. Score Reports

Appendix C. Item Mean Summaries

Operational

Multiple-choice

Subject	Grade	$p < 0.30$	$0.30 \leq p < 0.55$	$0.55 \leq p < 0.75$	$0.75 \leq p < 0.95$	$p \geq 0.95$	Mean p	N
Reading	3	1	7	17	11	-	0.65	36
	4	1	13	11	10	1	0.60	36
	5	2	12	16	6	-	0.57	36
	6	2	15	19	5	1	0.56	42
	7	1	20	11	8	-	0.57	40
	8	3	12	16	11	-	0.60	42
Mathematics	3	-	11	19	14	-	0.66	44
	4	-	14	20	10	-	0.62	44
	5	-	17	22	5	-	0.59	44
	6	2	19	19	4	-	0.54	44
	7	-	24	16	4	-	0.53	44
	8	2	20	19	3	-	0.53	44
Science	4	7	8	13	2	7	0.72	30
	7	9	10	11	-	9	0.65	30
Social Studies	5	-	6	31	7	-	0.66	44
	8	-	7	30	7	-	0.63	44
Language Mechanics	4	-	20	10	-	-	0.71	30
	6	2	15	13	-	2	0.70	30

Constructed Response

Subject	Grade	Short Answer				Extended Response			
		N	Mean	Min	Max	N	Mean	Min	Max
Reading	3	2	0.98	0.77	1.18	-	--	--	--
	4	2	0.87	0.59	1.15	1	1.55	--	--
	5	2	0.81	0.52	1.09	1	1.29	--	--
	6	2	1.09	1.01	1.16	1	1.41	--	--
	7	2	1.14	1.03	1.25	1	1.96	--	--
	8	2	1.01	0.83	1.19	1	1.62	--	--
Mathematics	3	3	1.05	0.82	1.29	-	--	--	--
	4	3	0.82	0.54	1.07	1	1.80	--	--
	5	3	0.85	0.72	0.95	1	1.40	--	--
	6	3	1.05	0.84	1.41	1	1.32	--	--
	7	3	0.74	0.55	0.94	1	1.18	--	--
	8	3	0.78	0.41	0.98	1	1.91	--	--
Science	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Social Studies	5	-	--	--	--	3	1.67	1.41	2.15
	8	-	--	--	--	3	2.49	2.24	2.72

Appendix D. Item-Total Correlation Summaries

Operational

Multiple-choice

Subject	Grade	$r < 0.20$	$0.20 \leq r < 0.40$	$0.40 \leq r < 0.60$	$0.60 \leq r < 0.80$	$r \geq 0.80$	Median Pt.Bis	N
Reading	3	1	14	21	-	-	0.41	36
	4	3	18	15	-	-	0.39	36
	5	2	16	18	-	-	0.40	36
	6	4	23	15	-	-	0.37	42
	7	2	20	18	-	-	0.38	40
	8	3	16	23	-	-	0.41	42
Mathematics	3	-	14	30	-	-	0.43	44
	4	-	14	30	-	-	0.43	44
	5	-	13	31	-	-	0.43	44
	6	1	17	26	-	-	0.43	44
	7	-	18	26	-	-	0.41	44
	8	2	19	23	-	-	0.43	44
Science	4	-	15	15	-	-	0.40	42
	7	-	17	13	-	-	0.39	42
Social Studies	5	-	22	22	-	-	0.40	44
	8	-	17	26	1	-	0.42	44
Language Mechanics	4	-	7	23	-	-	0.46	30
	6	-	8	22	-	-	0.47	30

Constructed Response

Subject	Grade	Short Answer				Extended Response			
		N	Median r	Min r	Max r	N	Median r	Min r	Max r
Reading	3	2	0.46	0.39	0.53	-	--	--	--
	4	2	0.45	0.42	0.47	1	0.62	--	--
	5	2	0.37	0.35	0.39	1	0.46	--	--
	6	2	0.49	0.43	0.55	1	0.52	--	--
	7	2	0.47	0.45	0.49	1	0.57	--	--
	8	2	0.49	0.43	0.54	1	0.47	--	--
Mathematics	3	3	0.54	0.49	0.57	-	--	--	--
	4	3	0.57	0.46	0.58	1	0.57	--	--
	5	3	0.52	0.46	0.57	1	0.57	--	--
	6	3	0.55	0.43	0.62	1	0.62	--	--
	7	3	0.46	0.40	0.61	1	0.65	--	--
Science	8	3	0.55	0.44	0.56	1	0.70	--	--
	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Social Studies	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5	-	--	--	--	3	0.51	0.44	0.55
	8	-	--	--	--	3	0.53	0.46	0.54

Appendix E. Differential Item Functioning Summaries

Operational

Reading

Grade	Subgroups	DIF Categories					
		A+	A-	B+	B-	C+	C-
3	Male-Female	19	18	-	1	-	-
	White-Black	21	16	-	1	-	-
	White-Hispanic	19	18	-	1	-	-
4	Male-Female	24	14	-	-	-	1
	White-Black	20	18	-	-	-	1
	White-Hispanic	22	16	-	-	-	1
5	Male-Female	18	20	-	1	-	-
	White-Black	19	20	-	-	-	-
	White-Hispanic	19	19	-	1	-	-
6	Male-Female	25	18	-	-	-	2
	White-Black	24	20	-	1	-	-
	White-Hispanic	23	22	-	-	-	-
7	Male-Female	17	24	1	1	-	-
	White-Black	24	19	-	-	-	-
	White-Hispanic	24	19	-	-	-	-
8	Male-Female	18	27	-	-	-	-
	White-Black	21	24	-	-	-	-
	White-Hispanic	25	20	-	-	-	-

Mathematics

Grade	Subgroups	DIF Categories					
		A+	A-	B+	B-	C+	C-
3	Male-Female	24	23	-	-	-	-
	White-Black	24	23	-	-	-	-
	White-Hispanic	26	21	-	-	-	-
4	Male-Female	20	27	1	-	-	-
	White-Black	23	24	1	-	-	-
	White-Hispanic	29	18	-	1	-	-
5	Male-Female	27	21	-	-	-	-
	White-Black	23	23	2	-	-	-
	White-Hispanic	26	22	-	-	-	-
6	Male-Female	24	23	-	1	-	-
	White-Black	26	21	-	1	-	-
	White-Hispanic	31	17	-	-	-	-
7	Male-Female	24	23	-	1	-	-
	White-Black	23	25	-	-	-	-
	White-Hispanic	25	23	-	-	-	-
8	Male-Female	24	24	-	-	-	-
	White-Black	27	21	-	-	-	-
	White-Hispanic	27	21	-	-	-	-

Social Studies

Grade	Subgroups	DIF Categories					
		A+	A-	B+	B-	C+	C-
5	Male-Female	28	17	-	2	-	-
	White-Black	27	19	1	-	-	-
	White-Hispanic	24	23	-	-	-	-
8	Male-Female	15	30	-	-	2	-
	White-Black	27	19	-	1	-	-
	White-Hispanic	31	16	-	-	-	-

Appendix F. Item Response Theory Parameter Summary

Operational

			Item Difficulty					Infit				Outfit			
Subject	Grade	No. of Items	Min.	P25	Median	P75	Max.	<0.5	0.5<=Infit<1.5	1.5<=Infit<2.0	>2.0	<0.5	0.5<=Outfit<1.5	1.5<=Outfit<2.0	>2.0
Reading	3	38	-2.5020	-0.9126	-0.0564	0.5111	1.9051	-	38	-	-	-	37	1	-
	4	39	-2.7507	-0.5731	0.3701	1.2617	1.9013	-	39	-	-	-	39	-	-
	5	39	-1.7542	-0.0209	0.3123	1.1134	2.2788	-	39	-	-	-	38	1	-
	6	45	-2.9322	0.3512	0.5230	0.8947	2.2377	-	45	-	-	-	45	-	-
	7	43	-1.7301	-0.1705	0.5558	0.9212	1.7765	-	43	-	-	-	43	-	-
	8	45	-1.7093	-0.5307	0.2372	0.9338	2.0159	-	45	-	-	-	45	-	-

Appendix G. Raw Score to Scale Score Tables

Grade 3 Reading

Raw Score	Scale Score	Conditional SEM
0	105	34
1	129	17
2	142	12
3	149	10
4	155	9
5	160	8
6	164	8
7	167	7
8	170	7
9	173	7
10	176	7
11	179	6
12	181	6
13	183	6
14	185	6
15	188	6
16	190	6
17	192	6
18	194	6
19	196	6
20	198	6
21	200	6
22	202	6
23	204	6
24	206	6
25	208	6
26	210	6
27	212	6
28	214	6

Raw Score	Scale Score	Conditional SEM
29	217	6
30	219	6
31	222	7
32	225	7
33	228	7
34	231	8
35	235	8
36	239	9
37	245	10
38	252	12
39	265	17
40	288	34

Grade 3 Reading– Braille

Raw Score	Scale Score	Conditional SEM
0	105	34
1	129	17
2	142	12
3	150	10
4	155	9
5	160	8
6	164	8
7	167	7
8	171	7
9	174	7
10	176	7
11	179	6

Raw Score	Scale Score	Conditional SEM
12	181	6
13	183	6
14	186	6
15	188	6
16	190	6
17	192	6
18	194	6
19	196	6
20	198	6
21	200	6
22	202	6
23	205	6
24	207	6
25	209	6
26	211	6
27	213	6
28	216	6
29	218	7
30	221	7
31	224	7
32	227	7
33	230	8
34	234	8
35	238	9
36	244	10
37	251	12
38	264	17
39	287	34

Grade 4 Reading

Raw Score	Scale Score	Conditional SEM
0	106	34
1	130	17
2	143	13
3	151	11
4	157	9
5	162	9
6	166	8
7	170	8
8	173	7
9	176	7
10	179	7
11	182	7
12	184	6
13	187	6
14	189	6
15	191	6
16	193	6
17	195	6
18	197	6
19	199	6
20	201	6
21	203	6
22	205	6
23	207	6
24	208	6
25	210	6
26	212	6
27	214	6
28	216	6
29	218	6
30	220	6
31	222	6

Raw Score	Scale Score	Conditional SEM
32	224	6
33	226	6
34	228	6
35	230	6
36	233	7
37	236	7
38	239	7
39	242	8
40	247	9
41	252	10
42	259	12
43	271	17
44	294	33

Grade 4 Reading– Braille

Raw Score	Scale Score	Conditional SEM
0	106	34
1	130	17
2	143	13
3	151	11
4	157	9
5	162	9
6	166	8
7	170	8
8	173	7
9	176	7
10	179	7
11	182	7
12	184	6
13	187	6

Raw Score	Scale Score	Conditional SEM
14	189	6
15	191	6
16	193	6
17	196	6
18	198	6
19	200	6
20	201	6
21	203	6
22	205	6
23	207	6
24	209	6
25	211	6
26	213	6
27	215	6
28	217	6
29	219	6
30	221	6
31	223	6
32	225	6
33	227	6
34	229	6
35	232	7
36	235	7
37	238	7
38	242	8
39	246	9
40	251	10
41	258	12
42	270	17
43	294	33

Grade 5 Reading

Raw Score	Scale Score	Conditional SEM
0	112	34
1	136	17
2	149	12
3	156	10
4	162	9
5	167	8
6	171	8
7	174	7
8	177	7
9	180	7
10	183	7
11	185	6
12	188	6
13	190	6
14	192	6
15	194	6
16	196	6
17	198	6
18	200	6
19	202	6
20	204	6
21	206	6
22	208	6
23	210	6
24	212	6
25	214	6
26	216	6
27	218	6
28	220	6
29	222	6
30	224	6
31	226	6

Raw Score	Scale Score	Conditional SEM
32	229	6
33	231	6
34	234	7
35	237	7
36	240	7
37	243	8
38	247	8
39	251	9
40	256	10
41	262	11
42	270	12
43	282	17
44	300	33

Grade 5 Reading– Braille

Raw Score	Scale Score	Conditional SEM
0	112	34
1	136	17
2	149	12
3	157	10
4	162	9
5	167	8
6	171	8
7	174	7
8	178	7
9	180	7
10	183	7
11	186	6
12	188	6
13	190	6

Raw Score	Scale Score	Conditional SEM
14	193	6
15	195	6
16	197	6
17	199	6
18	201	6
19	203	6
20	205	6
21	207	6
22	209	6
23	211	6
24	213	6
25	215	6
26	217	6
27	219	6
28	221	6
29	223	6
30	225	6
31	228	6
32	230	7
33	233	7
34	236	7
35	239	7
36	242	8
37	246	8
38	251	9
39	256	10
40	262	11
41	269	12
42	281	17
43	300	33

Grade 6 Reading

Raw Score	Scale Score	Conditional SEM
0	108	34
1	132	18
2	146	13
3	154	11
4	160	9
5	165	9
6	169	8
7	172	7
8	175	7
9	178	7
10	181	6
11	183	6
12	185	6
13	187	6
14	189	6
15	191	6
16	193	5
17	195	5
18	196	5
19	198	5
20	200	5
21	201	5
22	203	5
23	204	5
24	206	5
25	208	5
26	209	5
27	211	5
28	212	5
29	214	5
30	215	5

Raw Score	Scale Score	Conditional SEM
31	217	5
32	219	5
33	220	5
34	222	5
35	224	6
36	226	6
37	228	6
38	230	6
39	232	6
40	234	6
41	236	6
42	239	7
43	242	7
44	245	7
45	248	8
46	252	9
47	257	10
48	264	12
49	276	17
50	299	33

Grade 6 Reading– Braille

Raw Score	Scale Score	Conditional SEM
0	108	34
1	133	18
2	146	13
3	154	11
4	160	9
5	165	9
6	169	8

Raw Score	Scale Score	Conditional SEM
7	173	7
8	176	7
9	178	7
10	181	6
11	183	6
12	186	6
13	188	6
14	190	6
15	192	6
16	193	5
17	195	5
18	197	5
19	199	5
20	200	5
21	202	5
22	203	5
23	205	5
24	207	5
25	208	5
26	210	5
27	211	5
28	213	5
29	215	5
30	216	5
31	218	5
32	220	5
33	221	5
34	223	6
35	225	6
36	227	6
37	229	6

Raw Score	Scale Score	Conditional SEM
38	231	6
39	234	6
40	236	6
41	239	7
42	241	7
43	244	7
44	248	8
45	252	9
46	257	10
47	264	12
48	276	17
49	299	33

Grade 7 Reading

Raw Score	Scale Score	Conditional SEM
0	111	34
1	135	17
2	147	12
3	154	10
4	160	9
5	164	8
6	168	8
7	172	7
8	175	7
9	177	7
10	180	6
11	182	6
12	184	6
13	186	6
14	189	6
15	190	6
16	192	6

Raw Score	Scale Score	Conditional SEM
17	194	5
18	196	5
19	198	5
20	199	5
21	201	5
22	203	5
23	204	5
24	206	5
25	207	5
26	209	5
27	211	5
28	212	5
29	214	5
30	216	5
31	217	5
32	219	5
33	221	6
34	223	6
35	225	6
36	227	6
37	229	6
38	231	6
39	233	6
40	236	7
41	239	7
42	242	7
43	246	8
44	250	9
45	255	10
46	262	12
47	274	17
48	298	33

**Grade 7 Reading–
Braille**

Raw Score	Scale Score	Conditional SEM
0	111	34
1	135	17
2	147	12
3	155	10
4	160	9
5	165	8
6	169	8
7	172	7
8	175	7
9	178	7
10	180	6
11	182	6
12	185	6
13	187	6
14	189	6
15	191	6
16	193	6
17	195	5
18	196	5
19	198	5
20	200	5
21	201	5
22	203	5
23	205	5
24	206	5
25	208	5
26	210	5
27	211	5
28	213	5
29	215	5

Raw Score	Scale Score	Conditional SEM
30	217	5
31	218	5
32	220	6
33	222	6
34	224	6
35	226	6
36	228	6
37	230	6
38	233	6
39	235	7
40	238	7
41	241	7
42	245	8
43	249	9
44	255	10
45	262	12
46	274	17
47	297	33

Grade 8 Reading

Raw Score	Scale Score	Conditional SEM
0	107	34
1	131	17
2	143	12
3	151	10
4	156	9
5	161	8
6	164	8
7	168	7
8	171	7
9	173	7
10	176	6

Raw Score	Scale Score	Conditional SEM
11	178	6
12	181	6
13	183	6
14	185	6
15	187	6
16	189	6
17	190	6
18	192	5
19	194	5
20	196	5
21	197	5
22	199	5
23	201	5
24	202	5
25	204	5
26	206	5
27	207	5
28	209	5
29	210	5
30	212	5
31	214	5
32	215	5
33	217	5
34	219	5
35	221	5
36	222	6
37	224	6
38	226	6
39	228	6
40	230	6
41	233	6
42	235	7
43	238	7

Raw Score	Scale Score	Conditional SEM
44	241	7
45	245	8
46	249	9
47	254	10
48	262	12
49	274	17
50	297	33

Grade 3 Mathematics

Raw Score	Scale Score	Conditional SEM
0	101	33
1	124	17
2	136	12
3	144	10
4	149	9
5	154	8
6	157	8
7	161	7
8	164	7
9	166	7
10	169	6
11	171	6
12	173	6
13	175	6
14	177	6
15	179	6
16	181	5
17	183	5
18	184	5
19	186	5
20	188	5
21	189	5

Raw Score	Scale Score	Conditional SEM
22	191	5
23	193	5
24	194	5
25	196	5
26	197	5
27	199	5
28	200	5
29	202	5
30	204	5
31	205	5
32	207	5
33	209	5
34	210	5
35	212	6
36	214	6
37	216	6
38	218	6
39	220	6
40	222	6
41	225	7
42	228	7
43	231	7
44	234	8
45	238	9
46	243	9
47	249	11
48	257	13
49	271	18
50	296	34

Grade 4 Mathematics

Raw Score	Scale Score	Conditional SEM
0	105	33
1	129	17
2	141	12
3	148	10
4	154	9
5	158	8
6	162	8
7	165	7
8	168	7
9	170	6
10	173	6
11	175	6
12	177	6
13	179	6
14	181	6
15	183	6
16	185	5
17	186	5
18	188	5
19	190	5
20	191	5
21	193	5
22	194	5
23	196	5
24	198	5
25	199	5
26	201	5
27	202	5
28	204	5
29	205	5
30	207	5

Raw Score	Scale Score	Conditional SEM
31	208	5
32	210	5
33	211	5
34	213	5
35	214	5
36	216	5
37	217	5
38	219	5
39	221	5
40	222	5
41	224	5
42	226	6
43	228	6
44	230	6
45	232	6
46	234	6
47	237	7
48	240	7
49	243	8
50	247	9
51	252	10
52	259	12
53	271	17
54	294	33

Grade 5 Mathematics

Raw Score	Scale Score	Conditional SEM
0	109	34
1	133	17
2	145	12
3	152	10
4	158	9

Raw Score	Scale Score	Conditional SEM
5	162	8
6	166	8
7	169	7
8	172	7
9	174	6
10	177	6
11	179	6
12	181	6
13	183	6
14	185	6
15	187	6
16	189	5
17	191	5
18	192	5
19	194	5
20	196	5
21	197	5
22	199	5
23	200	5
24	202	5
25	203	5
26	205	5
27	206	5
28	208	5
29	209	5
30	211	5
31	212	5
32	214	5
33	216	5
34	217	5
35	219	5
36	221	5
37	222	5

Raw Score	Scale Score	Conditional SEM
38	224	5
39	226	6
40	228	6
41	230	6
42	232	6
43	234	6
44	236	6
45	238	6
46	241	7
47	244	7
48	247	7
49	250	8
50	255	9
51	260	10
52	267	12
53	279	17
54	300	34

**Grade 5 Mathematics–
Braille**

Raw Score	Scale Score	Conditional SEM
0	111	33
1	134	17
2	147	12
3	154	10
4	159	9
5	164	8
6	167	8
7	171	7
8	173	7
9	176	6
10	178	6

Raw Score	Scale Score	Conditional SEM
11	181	6
12	183	6
13	185	6
14	187	6
15	189	5
16	190	5
17	192	5
18	194	5
19	195	5
20	197	5
21	199	5
22	200	5
23	202	5
24	203	5
25	205	5
26	206	5
27	208	5
28	210	5
29	211	5
30	213	5
31	214	5
32	216	5
33	218	5
34	219	5
35	221	5
36	223	6
37	225	6
38	227	6
39	229	6
40	231	6
41	234	6
42	236	7
43	239	7

Raw Score	Scale Score	Conditional SEM
44	242	8
45	246	8
46	250	9
47	256	10
48	263	12
49	275	17
50	299	34

Grade 6 Mathematics

Raw Score	Scale Score	Conditional SEM
0	110	34
1	134	17
2	146	12
3	154	10
4	159	9
5	163	8
6	167	8
7	170	7
8	173	7
9	176	6
10	178	6
11	181	6
12	183	6
13	185	6
14	187	6
15	188	5
16	190	5
17	192	5
18	193	5
19	195	5
20	196	5
21	198	5

Raw Score	Scale Score	Conditional SEM
22	199	5
23	201	5
24	202	5
25	204	5
26	205	5
27	207	5
28	208	5
29	209	5
30	211	5
31	212	5
32	214	5
33	215	5
34	217	5
35	218	5
36	219	5
37	221	5
38	223	5
39	224	5
40	226	5
41	227	5
42	229	6
43	231	6
44	233	6
45	235	6
46	238	6
47	240	7
48	243	7
49	247	8
50	251	9
51	256	10
52	263	12
53	275	17
54	298	33

Grade 7 Mathematics

Raw Score	Scale Score	Conditional SEM
0	113	33
1	136	17
2	149	12
3	156	10
4	161	9
5	166	8
6	169	8
7	172	7
8	175	7
9	178	6
10	180	6
11	182	6
12	184	6
13	186	6
14	188	5
15	190	5
16	192	5
17	193	5
18	195	5
19	197	5
20	198	5
21	200	5
22	201	5
23	202	5
24	204	5
25	205	5
26	207	5
27	208	5
28	209	5
29	211	5
30	212	5

Raw Score	Scale Score	Conditional SEM
31	213	5
32	215	5
33	216	5
34	218	5
35	219	5
36	221	5
37	222	5
38	224	5
39	225	5
40	227	5
41	229	5
42	230	6
43	232	6
44	234	6
45	237	6
46	239	7
47	242	7
48	245	7
49	249	8
50	253	9
51	258	10
52	266	12
53	278	17
54	300	34

Grade 8 Mathematics

Raw Score	Scale Score	Conditional SEM
0	113	33
1	137	17
2	149	12
3	156	10
4	162	9

Raw Score	Scale Score	Conditional SEM
5	166	8
6	170	7
7	173	7
8	176	7
9	178	6
10	180	6
11	183	6
12	185	6
13	187	6
14	188	5
15	190	5
16	192	5
17	193	5
18	195	5
19	197	5
20	198	5
21	199	5
22	201	5
23	202	5
24	204	5
25	205	5
26	206	5
27	208	5
28	209	5
29	210	5
30	212	5
31	213	5
32	215	5
33	216	5
34	217	5
35	219	5
36	220	5
37	222	5

Raw Score	Scale Score	Conditional SEM
38	223	5
39	225	5
40	226	5
41	228	5
42	230	6
43	232	6
44	234	6
45	236	6
46	238	6
47	241	7
48	244	7
49	247	8
50	251	9
51	257	10
52	264	12
53	276	17
54	299	33

Grade 5 Social Studies

Raw Score	Scale Score	Conditional SEM
0	111	33
1	135	17
2	147	12
3	154	10
4	159	9
5	163	8
6	167	7
7	170	7
8	173	7
9	175	6
10	177	6
11	179	6

Raw Score	Scale Score	Conditional SEM
12	181	6
13	183	5
14	185	5
15	186	5
16	188	5
17	190	5
18	191	5
19	193	5
20	194	5
21	195	5
22	197	5
23	198	5
24	199	5
25	201	5
26	202	5
27	203	5
28	205	5
29	206	5
30	208	5
31	209	5
32	210	5
33	212	5
34	213	5
35	215	5
36	216	5
37	218	5
38	219	5
39	221	5
40	223	5
41	224	6
42	226	6
43	228	6
44	230	6

Raw Score	Scale Score	Conditional SEM
45	233	6
46	235	7
47	238	7
48	241	7
49	244	8
50	248	8
51	252	9
52	257	10
53	263	11
54	272	13
55	285	18
56	300	34

Grade 8 Social Studies

Raw Score	Scale Score	Conditional SEM
0	109	33
1	132	17
2	144	12
3	151	10
4	156	9
5	160	8
6	163	7
7	166	7
8	169	6
9	171	6
10	173	6
11	175	6
12	177	6
13	179	5
14	181	5
15	182	5
16	184	5

Raw Score	Scale Score	Conditional SEM
17	186	5
18	187	5
19	189	5
20	190	5
21	192	5
22	193	5
23	194	5
24	196	5
25	197	5
26	199	5
27	200	5
28	202	5
29	203	5
30	204	5
31	206	5
32	207	5
33	209	5
34	210	5
35	212	5
36	213	5
37	215	5
38	216	5
39	218	5
40	220	5
41	221	5
42	223	6
43	225	6
44	227	6
45	229	6
46	232	6
47	234	7
48	237	7
49	240	7

Raw Score	Scale Score	Conditional SEM
50	243	8
51	247	8
52	252	9
53	257	10
54	265	13
55	278	17
56	300	34

Grade 5 On Demand Writing

Form	Scale Score	Conditional SEM
01	100	17
01	108	10
01	118	9
01	128	10
01	151	19
01	173	10
01	182	8
01	191	10
01	210	16
01	229	10
01	238	8
01	247	9
01	259	11
01	272	9
01	281	8
01	290	10
01	300	17
02	100	17
02	114	10
02	123	8

Form	Scale Score	Conditional SEM
02	132	10
02	152	17
02	171	10
02	180	8
02	189	9
02	208	16
02	226	9
02	235	8
02	244	9
02	257	11
02	269	9
02	278	8
02	287	10
02	300	17

Grade 6 On Demand Writing

Form	Scale Score	Conditional SEM
01	107	17
01	121	10
01	130	8
01	140	10
01	165	23
01	190	10
01	199	8
01	208	9
01	224	14
01	240	9
01	249	8
01	257	9
01	268	10
01	278	9

Form	Scale Score	Conditional SEM
01	287	8
01	296	10
01	300	17
02	107	17
02	120	10
02	130	8
02	139	10
02	160	18
02	183	10
02	194	9
02	205	10
02	220	13
02	235	10
02	245	9
02	254	9
02	264	10
02	275	9
02	283	8
02	293	10
02	300	17

Grade 8 On Demand Writing

Form	Scale Score	Conditional SEM
01	100	18
01	113	11
01	125	10
01	136	10
01	153	13
01	170	10
01	180	9
01	191	10

Form	Scale Score	Conditional SEM
01	204	11
01	217	9
01	226	8
01	235	9
01	245	9
01	255	9
01	264	9
01	274	10
01	288	17
02	100	18
02	101	11
02	118	13
02	135	11
02	154	14
02	171	10
02	181	9
02	192	10
02	206	12
02	220	9
02	229	8
02	238	9
02	249	10
02	261	9
02	269	8
02	278	10
02	291	17

Grade 10 On Demand Writing

Form	Scale Score	Conditional SEM
01	100	18
01	112	10

Form	Scale Score	Conditional SEM
01	123	9
01	134	10
01	150	13
01	166	10
01	175	9
01	184	10
01	201	14
01	217	9
01	226	8
01	235	9
01	249	12
01	263	9
01	272	8
01	281	10
01	295	17
02	102	17
02	116	10
02	126	9
02	135	10
02	151	13
02	167	9
02	176	8
02	185	9
02	202	14
02	218	9
02	227	8
02	236	9
02	249	12
02	263	9
02	271	8
02	280	10
02	294	17

Grade 11 On Demand Writing

Form	Scale Score	Conditional SEM
01	116	18
01	131	11
01	143	10
01	155	10
01	169	11
01	182	9
01	191	8
01	200	9
01	214	12
01	227	9
01	236	8
01	244	9
01	259	12
01	273	9
01	282	8
01	291	10
01	300	17
02	126	17
02	140	10
02	149	8
02	158	9
02	170	10
02	181	9
02	190	8
02	200	9
02	213	12
02	226	9
02	235	8
02	244	9
02	258	12
02	272	9

Form	Scale Score	Conditional SEM
02	281	8
02	290	10
02	300	17

Appendix H. Raw Score to Scale Score Tables— Subdomain

Grade 3 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.8390	118	34
	1	-3.3043	143	18
	2	-2.4125	158	14
	3	-1.8053	168	12
	4	-1.3081	177	11
	5	-0.8610	184	11
	6	-0.4308	191	11
	7	0.0099	199	11
	8	0.4949	207	12
	9	1.0852	217	14
	10	1.9574	231	18
	11	3.4775	256	34
Craft and Structure	0	-3.4104	142	34
	1	-1.8715	167	18
	2	-0.9801	182	14
	3	-0.3773	192	12
	4	0.1141	200	11
	5	0.5568	208	11
	6	0.9886	215	11
	7	1.4475	223	12
	8	1.9968	232	13
	9	2.8142	245	18
	10	4.2852	270	34
Integration of Ideas	0	-3.4054	142	34
	1	-1.8679	167	18
	2	-0.9640	182	14
	3	-0.3319	193	13

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	4	0.2077	202	12
	5	0.7225	211	12
	6	1.2616	220	13
	7	1.8922	230	14
	8	2.7928	245	18
	9	4.3263	271	34
Vocabulary and Acquisition	0	-4.2800	127	34
	1	-2.7924	152	18
	2	-1.9507	166	14
	3	-1.3780	176	12
	4	-0.8988	183	11
	5	-0.4517	191	11
	6	0.0004	198	11
	7	0.4945	207	12
	8	1.0921	217	14
	9	1.9681	231	18
	10	3.4868	257	34

Grade 3 Reading-Braille

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.8390	118	34
	1	-3.3043	143	18
	2	-2.4125	158	14
	3	-1.8053	168	12
	4	-1.3081	177	11
	5	-0.8610	184	11
	6	-0.4308	191	11
	7	0.0099	199	11
	8	0.4949	207	12
	9	1.0852	217	14
	10	1.9574	231	18

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	11	3.4775	256	34
Craft and Structure	0	-3.4104	142	34
	1	-1.8715	167	18
	2	-0.9801	182	14
	3	-0.3773	192	12
	4	0.1141	200	11
	5	0.5568	208	11
	6	0.9886	215	11
	7	1.4475	223	12
	8	1.9968	232	13
	9	2.8142	245	18
	10	4.2852	270	34
Integration of Ideas	0	-3.3559	143	34
	1	-1.8037	168	18
	2	-0.8745	184	14
	3	-0.2076	195	13
	4	0.3824	205	13
	5	0.9756	215	13
	6	1.6517	226	15
	7	2.5952	242	19
	8	4.1603	268	34
Vocabulary and Acquisition	0	-4.2800	127	34
	1	-2.7924	152	18
	2	-1.9507	166	14
	3	-1.3780	176	12
	4	-0.8988	183	11
	5	-0.4517	191	11
	6	0.0004	198	11
	7	0.4945	207	12
	8	1.0921	217	14
	9	1.9681	231	18
	10	3.4868	257	34

Grade 4 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.8479	117	34
	1	-3.2706	143	19
	2	-2.3304	159	14
	3	-1.6788	169	13
	4	-1.1342	178	12
	5	-0.6309	187	12
	6	-0.1303	195	12
	7	0.4044	204	13
	8	1.0331	215	14
	9	1.9299	230	18
	10	3.4578	255	34
Craft and Structure	0	-3.5094	139	35
	1	-1.8658	166	19
	2	-0.8581	183	15
	3	-0.1692	195	13
	4	0.3846	204	12
	5	0.8708	212	11
	6	1.3299	220	11
	7	1.8018	227	12
	8	2.3505	237	13
	9	3.1538	250	17
	10	4.6051	274	34
Integration of Ideas	0	-3.3138	142	34
	1	-1.7388	168	19
	2	-0.8355	183	14
	3	-0.2633	193	12
	4	0.1646	200	10
	5	0.5189	206	10
	6	0.8370	211	9
	7	1.1427	216	9
	8	1.4533	222	9

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	9	1.7861	227	10
	10	2.1667	234	11
	11	2.6496	242	13
	12	3.4070	254	17
	13	4.8361	278	34
Vocabulary and Acquisition	0	-3.7596	135	34
	1	-2.2768	159	18
	2	-1.4433	173	13
	3	-0.8816	183	12
	4	-0.4180	190	11
	5	0.0056	197	11
	6	0.4209	204	11
	7	0.8532	212	11
	8	1.3335	220	12
	9	1.9196	229	14
	10	2.7839	244	18
	11	4.2928	269	34

Grade 4 Reading-Braille

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.8479	117	34
	1	-3.2706	143	19
	2	-2.3304	159	14
	3	-1.6788	169	13
	4	-1.1342	178	12
	5	-0.6309	187	12
	6	-0.1303	195	12
	7	0.4044	204	13
	8	1.0331	215	14
	9	1.9299	230	18
	10	3.4578	255	34
Craft and Structure	0	-3.5094	139	35

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	1	-1.8658	166	19
	2	-0.8581	183	15
	3	-0.1692	195	13
	4	0.3846	204	12
	5	0.8708	212	11
	6	1.3299	220	11
	7	1.8018	227	12
	8	2.3505	237	13
	9	3.1538	250	17
	10	4.6051	274	34
Integration of Ideas	0	-3.2770	143	35
	1	-1.6882	169	19
	2	-0.7696	185	14
	3	-0.1861	194	12
	4	0.2516	202	10
	5	0.6180	208	10
	6	0.9532	213	10
	7	1.2836	219	10
	8	1.6307	225	10
	9	2.0216	231	11
	10	2.5101	239	13
	11	3.2680	252	17
	12	4.6943	276	34
Vocabulary and Acquisition	0	-3.7596	135	34
	1	-2.2768	159	18
	2	-1.4433	173	13
	3	-0.8816	183	12
	4	-0.4180	190	11
	5	0.0056	197	11
	6	0.4209	204	11
	7	0.8532	212	11
	8	1.3335	220	12
	9	1.9196	229	14

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	10	2.7839	244	18
	11	4.2928	269	34

Grade 5 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.0082	132	34
	1	-2.4621	158	18
	2	-1.5650	173	14
	3	-0.9591	183	12
	4	-0.4648	191	11
	5	-0.0186	199	11
	6	0.4156	206	11
	7	0.8677	214	11
	8	1.3746	222	12
	9	2.0014	232	14
	10	2.9291	248	19
	11	4.5034	274	34
Craft and Structure	0	-3.8249	135	35
	1	-2.2120	162	19
	2	-1.2200	179	15
	3	-0.5332	190	13
	4	0.0179	199	12
	5	0.4953	207	11
	6	0.9341	215	11
	7	1.3615	222	11
	8	1.8090	229	11
	9	2.3349	238	13
	10	3.1115	251	17
	11	4.5366	275	33
Integration of Ideas	0	-3.4754	141	34
	1	-1.9439	167	18
	2	-1.0495	182	14

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM	
	3	-0.4351	192	12	
	4	0.0703	200	11	
	5	0.5240	208	11	
	6	0.9562	215	11	
	7	1.3898	222	11	
	8	1.8472	230	12	
	9	2.3542	238	12	
	10	2.9350	248	13	
	11	3.6009	259	14	
	12	4.4398	273	17	
	13	5.7868	296	32	
	Vocabulary and Acquisition	0	-3.7128	137	34
		1	-2.2088	162	18
2		-1.3431	177	14	
3		-0.7429	187	12	
4		-0.2313	195	12	
5		0.2575	203	12	
6		0.7708	212	12	
7		1.3740	222	14	
8		2.2446	236	18	
9		3.7534	262	34	

Grade 5 Reading-Braille

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.0082	132	34
	1	-2.4621	158	18
	2	-1.5650	173	14
	3	-0.9591	183	12
	4	-0.4648	191	11
	5	-0.0186	199	11
	6	0.4156	206	11
	7	0.8677	214	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	8	1.3746	222	12
	9	2.0014	232	14
	10	2.9291	248	19
	11	4.5034	274	34
Craft and Structure	0	-3.8249	135	35
	1	-2.2120	162	19
	2	-1.2200	179	15
	3	-0.5332	190	13
	4	0.0179	199	12
	5	0.4953	207	11
	6	0.9341	215	11
	7	1.3615	222	11
	8	1.8090	229	11
	9	2.3349	238	13
	10	3.1115	251	17
	11	4.5366	275	33
Integration of Ideas	0	-3.4353	142	34
	1	-1.8920	168	18
	2	-0.9780	183	14
	3	-0.3389	193	13
	4	0.1971	202	12
	5	0.6889	211	12
	6	1.1700	219	12
	7	1.6685	227	12
	8	2.2145	236	13
	9	2.8360	246	14
	10	3.5392	258	14
	11	4.3995	272	17
	12	5.7486	295	32
Vocabulary and Acquisition	0	-3.7128	137	34
	1	-2.2088	162	18
	2	-1.3431	177	14
	3	-0.7429	187	12

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	4	-0.2313	195	12
	5	0.2575	203	12
	6	0.7708	212	12
	7	1.3740	222	14
	8	2.2446	236	18
	9	3.7534	262	34

Grade 6 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.7481	118	35
	1	-3.0587	146	20
	2	-1.9832	164	15
	3	-1.2388	176	13
	4	-0.6419	186	12
	5	-0.1156	195	12
	6	0.3885	203	12
	7	0.9146	212	12
	8	1.5284	222	14
	9	2.4078	237	18
	10	3.9227	262	34
Craft and Structure	0	-3.5184	138	34
	1	-2.0540	163	18
	2	-1.2555	176	13
	3	-0.7420	185	11
	4	-0.3417	191	10
	5	0.0010	197	9
	6	0.3123	202	9
	7	0.6086	207	9
	8	0.9024	212	9
	9	1.2066	217	9
	10	1.5374	223	10

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	11	1.9214	229	11
	12	2.4140	237	13
	13	3.1871	250	17
	14	4.6297	274	34
Integration of Ideas	0	-2.9562	148	34
	1	-1.5095	172	17
	2	-0.7265	185	13
	3	-0.2196	193	11
	4	0.1824	200	10
	5	0.5340	206	10
	6	0.8604	211	9
	7	1.1760	216	9
	8	1.4898	222	9
	9	1.8081	227	9
	10	2.1357	232	10
	11	2.4796	238	10
	12	2.8569	245	11
	13	3.3141	252	12
	14	4.0135	264	17
15	5.3676	286	33	
Vocabulary and Acquisition	0	-3.5617	138	34
	1	-2.0780	162	18
	2	-1.2454	176	13
	3	-0.6870	185	12
	4	-0.2293	193	11
	5	0.1865	200	11
	6	0.5923	207	11
	7	1.0144	214	11
	8	1.4850	222	12
	9	2.0629	231	14
	10	2.9217	246	18
	11	4.4289	271	34

Grade 6 Reading-Braille

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.7481	118	35
	1	-3.0587	146	20
	2	-1.9832	164	15
	3	-1.2388	176	13
	4	-0.6419	186	12
	5	-0.1156	195	12
	6	0.3885	203	12
	7	0.9146	212	12
	8	1.5284	222	14
	9	2.4078	237	18
	10	3.9227	262	34
Craft and Structure	0	-3.5184	138	34
	1	-2.0540	163	18
	2	-1.2555	176	13
	3	-0.7420	185	11
	4	-0.3417	191	10
	5	0.0010	197	9
	6	0.3123	202	9
	7	0.6086	207	9
	8	0.9024	212	9
	9	1.2066	217	9
	10	1.5374	223	10
	11	1.9214	229	11
	12	2.4140	237	13
	13	3.1871	250	17
	14	4.6297	274	34
Integration of Ideas	0	-2.8599	149	34
	1	-1.4078	173	17
	2	-0.6156	187	13
	3	-0.0968	195	11
	4	0.3199	202	10

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	5	0.6892	208	10
	6	1.0365	214	10
	7	1.3757	220	10
	8	1.7155	225	10
	9	2.0616	231	10
	10	2.4206	237	10
	11	2.8089	244	11
	12	3.2730	251	12
	13	3.9744	263	16
	14	5.3258	286	33
Vocabulary and Acquisition	0	-3.5617	138	34
	1	-2.0780	162	18
	2	-1.2454	176	13
	3	-0.6870	185	12
	4	-0.2293	193	11
	5	0.1865	200	11
	6	0.5923	207	11
	7	1.0144	214	11
	8	1.4850	222	12
	9	2.0629	231	14
	10	2.9217	246	18
	11	4.4289	271	34

Grade 7 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.3174	128	34
	1	-2.7734	153	18
	2	-1.8500	169	14
	3	-1.1918	180	13
	4	-0.6292	189	12
	5	-0.1063	198	12
	6	0.4102	206	12

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	7	0.9552	215	13
	8	1.5893	226	14
	9	2.4877	241	18
	10	4.0148	266	34
Craft and Structure	0	-3.8312	136	34
	1	-2.3256	161	18
	2	-1.4727	175	14
	3	-0.9055	184	12
	4	-0.4520	192	11
	5	-0.0561	199	10
	6	0.3096	205	10
	7	0.6631	211	10
	8	1.0201	217	10
	9	1.3984	223	11
	10	1.8257	230	11
	11	2.3580	239	13
	12	3.1673	252	18
	13	4.6347	277	34
Integration of Ideas	0	-3.3342	144	34
	1	-1.8860	168	17
	2	-1.0976	181	13
	3	-0.5810	190	11
	4	-0.1652	197	10
	5	0.2046	203	10
	6	0.5538	209	10
	7	0.8981	214	10
	8	1.2505	220	10
	9	1.6263	227	10
	10	2.0503	234	11
	11	2.5759	242	13
	12	3.3730	256	17
	13	4.8264	280	34
Vocabulary and Acquisition	0	-3.8970	135	34

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	1	-2.4006	160	18
	2	-1.5561	174	13
	3	-0.9929	183	12
	4	-0.5386	191	11
	5	-0.1364	197	10
	6	0.2426	204	10
	7	0.6192	210	10
	8	1.0137	216	11
	9	1.4552	224	12
	10	2.0004	233	13
	11	2.8216	247	18
	12	4.2976	271	34

Grade 7 Reading-Braille

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.3174	128	34
	1	-2.7734	153	18
	2	-1.8500	169	14
	3	-1.1918	180	13
	4	-0.6292	189	12
	5	-0.1063	198	12
	6	0.4102	206	12
	7	0.9552	215	13
	8	1.5893	226	14
	9	2.4877	241	18
	10	4.0148	266	34
Craft and Structure	0	-3.8312	136	34
	1	-2.3256	161	18
	2	-1.4727	175	14
	3	-0.9055	184	12
	4	-0.4520	192	11
	5	-0.0561	199	10

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	6	0.3096	205	10
	7	0.6631	211	10
	8	1.0201	217	10
	9	1.3984	223	11
	10	1.8257	230	11
	11	2.3580	239	13
	12	3.1673	252	18
	13	4.6347	277	34
Integration of Ideas	0	-3.2723	145	34
	1	-1.8187	169	17
	2	-1.0204	183	13
	3	-0.4904	191	11
	4	-0.0570	199	11
	5	0.3350	205	10
	6	0.7122	211	10
	7	1.0919	218	10
	8	1.4911	224	11
	9	1.9349	232	12
	10	2.4768	241	13
	11	3.2864	254	18
	12	4.7466	279	34
Vocabulary and Acquisition	0	-3.8970	135	34
	1	-2.4006	160	18
	2	-1.5561	174	13
	3	-0.9929	183	12
	4	-0.5386	191	11
	5	-0.1364	197	10
	6	0.2426	204	10
	7	0.6192	210	10
	8	1.0137	216	11
	9	1.4552	224	12
	10	2.0004	233	13

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	11	2.8216	247	18
	12	4.2976	271	34

Grade 8 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.7068	121	34
	1	-3.2202	146	18
	2	-2.3830	160	13
	3	-1.8205	169	12
	4	-1.3610	177	11
	5	-0.9492	184	11
	6	-0.5580	190	10
	7	-0.1689	197	10
	8	0.2370	204	11
	9	0.6871	211	12
	10	1.2376	220	13
	11	2.0608	234	18
	12	3.5359	259	34
Craft and Structure	0	-3.7441	137	34
	1	-2.2311	162	18
	2	-1.3640	177	14
	3	-0.7766	187	12
	4	-0.2957	195	11
	5	0.1357	202	11
	6	0.5466	209	11
	7	0.9570	216	11
	8	1.3870	223	11
	9	1.8644	231	12
	10	2.4452	240	14
	11	3.3009	255	18
	12	4.8015	280	34

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Integration of Ideas	0	-2.9288	151	34
	1	-1.4728	175	17
	2	-0.6878	188	13
	3	-0.1893	196	11
	4	0.1949	203	10
	5	0.5201	208	9
	6	0.8122	213	9
	7	1.0868	218	9
	8	1.3567	222	9
	9	1.6352	227	9
	10	1.9400	232	10
	11	2.2998	238	11
	12	2.7731	246	13
	13	3.5352	259	17
	14	4.9764	283	34
Vocabulary and Acquisition	0	-4.3638	127	34
	1	-2.8787	152	18
	2	-2.0468	165	13
	3	-1.4935	175	12
	4	-1.0468	182	11
	5	-0.6504	189	10
	6	-0.2759	195	10
	7	0.0969	201	10
	8	0.4884	208	11
	9	0.9272	215	12
	10	1.4701	224	13
	11	2.2896	238	18
	12	3.7647	262	34

Grade 3 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Operations and Algebraic Thinking	0	-4.3955	120	34
	1	-2.9055	145	18
	2	-2.0671	159	13
	3	-1.5055	168	12
	4	-1.0464	176	11
	5	-0.6313	183	11
	6	-0.2289	190	11
	7	0.1840	196	11
	8	0.6316	204	11
	9	1.1463	212	13
	10	1.7863	223	14
	11	2.7195	239	19
	12	4.2835	265	34
Number and Operations in Base Ten	0	-3.8910	129	34
	1	-2.4221	153	18
	2	-1.6123	167	13
	3	-1.0817	175	11
	4	-0.6585	182	10
	5	-0.2866	189	10
	6	0.0625	194	10
	7	0.4092	200	10
	8	0.7745	206	10
	9	1.1882	213	11
	10	1.7090	222	13
	11	2.5122	235	18
	12	3.9811	260	34
Number and Operations - Fractions	0	-4.3656	121	34
	1	-2.8516	146	18
	2	-1.9771	160	14
	3	-1.3780	170	12
	4	-0.8842	179	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	5	-0.4408	186	11
	6	-0.0204	193	11
	7	0.3967	200	11
	8	0.8297	207	11
	9	1.3038	215	12
	10	1.8603	224	13
	11	2.5827	236	15
	12	3.6888	255	20
	13	5.4473	284	35
Measurement and Data/Geometry	0	-3.8052	130	34
	1	-2.3028	155	18
	2	-1.4495	169	14
	3	-0.8805	179	12
	4	-0.4285	186	11
	5	-0.0418	193	10
	6	0.3046	198	10
	7	0.6284	204	9
	8	0.9471	209	9
	9	1.2818	215	10
	10	1.6639	221	11
	11	2.1545	229	13
	12	2.9307	242	17
	13	4.3817	266	34

Grade 4 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Operations and Algebraic Thinking	0	-4.5117	126	34
	1	-3.0267	151	18
	2	-2.1898	165	13
	3	-1.6240	175	12
	4	-1.1558	182	11
	5	-0.7285	189	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	6	-0.3165	196	11
	7	0.0887	203	11
	8	0.4822	210	10
	9	0.8586	216	10
	10	1.2354	222	10
	11	1.6703	229	12
	12	2.3440	241	16
	13	3.7114	263	33
Number and Operations in Base Ten	0	-4.2112	131	34
	1	-2.6850	157	18
	2	-1.8052	172	14
	3	-1.2083	181	12
	4	-0.7188	190	11
	5	-0.2782	197	11
	6	0.1421	204	11
	7	0.5580	211	11
	8	0.9800	218	11
	9	1.4235	225	11
	10	1.9325	234	13
	11	2.6669	246	17
	12	4.0310	269	33
Number and Operations - Fractions	0	-4.3573	129	34
	1	-2.8735	154	18
	2	-2.0425	168	13
	3	-1.4891	177	12
	4	-1.0420	184	11
	5	-0.6455	191	10
	6	-0.2726	197	10
	7	0.0945	203	10
	8	0.4706	209	10
	9	0.8733	216	11
	10	1.3289	224	12
	11	1.8926	233	13

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	12	2.7350	247	18
	13	4.2277	272	34
Measurement and Data/Geometry	0	-4.3681	129	34
	1	-2.8931	153	18
	2	-2.0781	167	13
	3	-1.5461	176	11
	4	-1.1266	183	10
	5	-0.7659	189	10
	6	-0.4394	194	9
	7	-0.1332	199	9
	8	0.1621	204	9
	9	0.4542	209	9
	10	0.7509	214	9
	11	1.0621	219	9
	12	1.4021	225	10
	13	1.7961	232	11
	14	2.2986	240	13
15	3.0806	253	17	
16	4.5290	277	34	

Grade 5 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Operations and Algebraic Thinking	0	-3.9719	136	34
	1	-2.4858	161	18
	2	-1.6497	175	13
	3	-1.0883	184	12
	4	-0.6292	192	11
	5	-0.2157	198	11
	6	0.1807	205	10
	7	0.5800	212	11
	8	1.0019	219	11
	9	1.4744	227	12

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	10	2.0529	236	14
	11	2.9087	251	18
	12	4.4106	276	34
Number and Operations in Base Ten	0	-3.9722	136	34
	1	-2.5078	160	18
	2	-1.7034	174	13
	3	-1.1771	182	11
	4	-0.7569	189	10
	5	-0.3869	196	10
	6	-0.0394	201	10
	7	0.3042	207	10
	8	0.6606	213	10
	9	1.0500	220	11
	10	1.5041	227	12
	11	2.0863	237	14
	12	2.9804	252	18
	13	4.5402	278	34
Number and Operations - Fractions	0	-4.0081	135	35
	1	-2.4110	162	19
	2	-1.4621	178	14
	3	-0.8230	188	12
	4	-0.3100	197	11
	5	0.1419	204	11
	6	0.5645	211	11
	7	0.9754	218	11
	8	1.3831	225	11
	9	1.7945	232	11
	10	2.2286	239	11
	11	2.7422	248	13
	12	3.5238	261	17
	13	4.9944	285	34
Measurement and Data/Geometry	0	-4.5837	126	34
	1	-3.1048	150	18

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	2	-2.2824	164	13
	3	-1.7410	173	11
	4	-1.3103	180	11
	5	-0.9365	186	10
	6	-0.5949	192	10
	7	-0.2716	198	9
	8	0.0427	203	9
	9	0.3552	208	9
	10	0.6729	213	9
	11	1.0038	219	10
	12	1.3603	225	10
	13	1.7655	232	11
	14	2.2717	240	13
	15	3.0486	253	17
	16	4.4866	277	34

Grade 5 Mathematics-Braille

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	0	-3.9719	136	34
	1	-2.4858	161	18
	2	-1.6497	175	13
	3	-1.0883	184	12
	4	-0.6292	192	11
	5	-0.2157	198	11
	6	0.1807	205	10
	7	0.5800	212	11
	8	1.0019	219	11
	9	1.4744	227	12
	10	2.0529	236	14
	11	2.9087	251	18
	12	4.4106	276	34
Operations and Algebraic Thinking				
Number and Operations in Base Ten	0	-3.9722	136	34

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	1	-2.5078	160	18
	2	-1.7034	174	13
	3	-1.1771	182	11
	4	-0.7569	189	10
	5	-0.3869	196	10
	6	-0.0394	201	10
	7	0.3042	207	10
	8	0.6606	213	10
	9	1.0500	220	11
	10	1.5041	227	12
	11	2.0863	237	14
	12	2.9804	252	18
	13	4.5402	278	34
Number and Operations - Fractions	0	-3.3221	147	34
	1	-1.8132	172	18
	2	-0.9451	186	14
	3	-0.3464	196	12
	4	0.1614	205	12
	5	0.6450	213	12
	6	1.1526	221	12
	7	1.7506	231	14
	8	2.6166	246	18
9	4.1225	271	34	
Measurement and Data/Geometry	0	-4.5837	126	34
	1	-3.1048	150	18
	2	-2.2824	164	13
	3	-1.7410	173	11
	4	-1.3103	180	11
	5	-0.9365	186	10
	6	-0.5949	192	10
	7	-0.2716	198	9
	8	0.0427	203	9
9	0.3552	208	9	

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	10	0.6729	213	9
	11	1.0038	219	10
	12	1.3603	225	10
	13	1.7655	232	11
	14	2.2717	240	13
	15	3.0486	253	17
	16	4.4866	277	34

Grade 6 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Ratios and Proportional Relationships	0	-4.2910	131	34
	1	-2.7791	156	18
	2	-1.9112	170	14
	3	-1.3212	180	12
	4	-0.8364	188	11
	5	-0.3984	195	11
	6	0.0245	202	11
	7	0.4585	210	11
	8	0.9355	218	12
	9	1.5146	227	14
	10	2.3695	242	18
	11	3.8710	267	34
The Number System	0	-3.6694	141	34
	1	-2.1632	166	18
	2	-1.2983	180	14
	3	-0.7059	190	12
	4	-0.2159	198	11
	5	0.2222	206	11
	6	0.6276	213	10
	7	1.0132	219	10
	8	1.4040	225	11
	9	1.8565	233	12

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	10	2.5437	244	16
	11	3.8970	267	33
Expressions and Equations	0	-3.4898	144	34
	1	-1.9941	169	18
	2	-1.1469	183	14
	3	-0.5772	192	12
	4	-0.1126	200	11
	5	0.3045	207	11
	6	0.7056	214	11
	7	1.1166	221	11
	8	1.5694	228	12
	9	2.1229	237	13
	10	2.9510	251	18
	11	4.4316	276	34
Geometry	0	-4.0491	135	35
	1	-2.4208	162	19
	2	-1.4578	178	14
	3	-0.8261	188	12
	4	-0.3284	197	11
	5	0.1081	204	11
	6	0.5226	211	11
	7	0.9446	218	11
	8	1.4080	226	12
	9	1.9729	235	13
	10	2.8137	249	18
	11	4.3051	274	34
Statistics and Probability	0	-3.6055	142	34
	1	-2.0957	167	18
	2	-1.2323	182	14
	3	-0.6460	191	12
	4	-0.1608	199	11
	5	0.2852	207	11
	6	0.7297	214	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	7	1.2101	222	12
	8	1.7882	232	14
	9	2.6399	246	18
	10	4.1385	271	34

Grade 7 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Ratios and Proportional Relationships	0	-3.5335	147	34
	1	-2.0617	172	18
	2	-1.2503	185	13
	3	-0.7191	194	11
	4	-0.2921	201	11
	5	0.0938	208	10
	6	0.4782	214	10
	7	0.9012	221	11
	8	1.4282	230	13
	9	2.2386	244	18
	10	3.7142	268	34
The Number System	0	-3.8178	143	34
	1	-2.2353	169	19
	2	-1.3048	185	14
	3	-0.6843	195	12
	4	-0.1934	203	11
	5	0.2303	210	11
	6	0.6207	217	10
	7	1.0049	223	10
	8	1.4165	230	11
	9	1.9163	238	13
	10	2.6811	251	17
11	4.1113	275	34	
Expressions and Equations	0	-3.8595	142	34

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	1	-2.3289	167	18
	2	-1.4359	182	14
	3	-0.8248	193	12
	4	-0.3280	201	11
	5	0.1085	208	11
	6	0.5150	215	11
	7	0.9209	222	11
	8	1.3666	229	12
	9	1.9268	238	14
	10	2.8025	253	18
	11	4.3634	279	34
Geometry	0	-3.6631	145	34
	1	-2.1873	170	18
	2	-1.3644	184	13
	3	-0.8145	193	12
	4	-0.3640	200	11
	5	0.0460	207	11
	6	0.4482	214	11
	7	0.8699	221	11
	8	1.3455	229	12
	9	1.9384	239	14
	10	2.8290	253	18
Statistics and Probability	11	4.3752	279	34
	0	-4.5833	130	34
	1	-3.0951	155	18
	2	-2.2561	169	13
	3	-1.6911	178	12
	4	-1.2271	186	11
	5	-0.8061	193	11
	6	-0.3970	200	11
	7	0.0253	207	11
	8	0.4918	214	12
9	1.0603	224	14	

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	10	1.9037	238	18
	11	3.3956	263	34

Grade 8 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
The Number System/Expressions and Equations	0	-3.9519	137	34
	1	-2.4969	161	17
	2	-1.7102	174	13
	3	-1.2085	183	11
	4	-0.8213	189	10
	5	-0.4944	195	9
	6	-0.2025	200	9
	7	0.0691	204	9
	8	0.3310	208	9
	9	0.5921	213	9
	10	0.8614	217	9
	11	1.1495	222	9
	12	1.4715	227	10
	13	1.8531	234	11
	14	2.3488	242	13
	15	3.1293	255	17
16	4.5796	279	34	
Functions	0	-3.9568	137	34
	1	-2.4264	162	18
	2	-1.5484	177	14
	3	-0.9633	187	12
	4	-0.4976	195	11
	5	-0.0949	201	10
	6	0.2731	207	10
	7	0.6271	213	10
	8	0.9895	219	10
	9	1.3930	226	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	10	1.9006	235	13
	11	2.6931	248	18
	12	4.1593	272	34
Geometry	0	-4.1042	134	34
	1	-2.6298	159	18
	2	-1.8236	173	13
	3	-1.3082	181	11
	4	-0.9118	188	10
	5	-0.5782	193	9
	6	-0.2805	198	9
	7	-0.0024	203	9
	8	0.2684	207	9
	9	0.5429	212	9
	10	0.8331	217	9
	11	1.1552	222	10
	12	1.5352	228	11
	13	2.0286	237	13
	14	2.8063	250	17
15	4.2546	274	34	
Statistics and Probability	0	-3.8283	139	34
	1	-2.3013	165	18
	2	-1.4018	180	14
	3	-0.7664	190	13
	4	-0.2244	199	12
	5	0.2750	207	12
	6	0.7506	215	11
	7	1.2129	223	11
	8	1.6823	231	12
	9	2.2133	240	13
	10	2.9792	253	17
	11	4.3878	276	33

Grade 5 Social Studies

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Government Civics	0	-3.7968	140	34
	1	-2.3238	164	18
	2	-1.5066	178	13
	3	-0.9657	187	11
	4	-0.5286	194	11
	5	-0.1385	201	10
	6	0.2332	207	10
	7	0.6071	213	10
	8	1.0031	220	11
	9	1.4470	227	12
	10	1.9804	236	13
	11	2.6839	248	15
	12	3.7585	266	20
	13	5.4779	294	35
Cultures and Societies	0	-3.7569	140	34
	1	-2.2656	165	18
	2	-1.4347	179	13
	3	-0.8849	188	12
	4	-0.4316	196	11
	5	-0.0015	203	11
	6	0.4580	211	12
	7	1.0078	220	13
	8	1.7502	232	16
	9	2.9249	252	21
	10	4.7554	282	36
Economics	0	-3.5733	143	34
	1	-2.0564	169	18
	2	-1.1756	183	14
	3	-0.5636	194	12
	4	-0.0454	202	12
	5	0.4405	210	12

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	6	0.9329	219	12
	7	1.4755	228	13
	8	2.1417	239	15
	9	3.1171	255	19
	10	4.7268	282	35
Geography	0	-3.8874	138	34
	1	-2.3764	163	18
	2	-1.5024	178	14
	3	-0.8958	188	12
	4	-0.3798	197	12
	5	0.1109	205	12
	6	0.6238	213	12
	7	1.2249	223	14
	8	2.0920	238	18
	9	3.5978	263	34
Historical Perspective	0	-4.1728	133	34
	1	-2.7262	158	17
	2	-1.9473	171	13
	3	-1.4487	179	11
	4	-1.0592	185	10
	5	-0.7236	191	9
	6	-0.4160	196	9
	7	-0.1201	201	9
	8	0.1766	206	9
	9	0.4867	211	9
	10	0.8264	217	10
	11	1.2220	223	11
	12	1.7289	232	13
	13	2.5187	245	17
14	3.9752	269	34	

Grade 8 Social Studies

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Government Civics	0	-4.2564	132	34
	1	-2.7781	157	18
	2	-1.9558	170	13
	3	-1.4117	180	12
	4	-0.9731	187	11
	5	-0.5830	193	10
	6	-0.2124	200	10
	7	0.1593	206	10
	8	0.5528	212	11
	9	0.9969	220	12
	10	1.5484	229	13
	11	2.3797	243	18
	12	3.8653	267	34
Cultures and Societies	0	-4.0335	136	33
	1	-2.6659	159	17
	2	-1.9085	171	13
	3	-1.3658	180	12
	4	-0.8796	188	12
	5	-0.4027	196	12
	6	0.0915	205	12
	7	0.6376	214	13
	8	1.3029	225	15
	9	2.2744	241	19
	10	3.8875	268	35
Economics	0	-3.9519	137	33
	1	-2.6004	160	17
	2	-1.8466	172	13
	3	-1.2911	182	12
	4	-0.7770	190	12
	5	-0.2627	199	12
	6	0.2710	208	12

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	7	0.8544	217	13
	8	1.5553	229	15
	9	2.5640	246	19
	10	4.2064	273	35
Geography	0	-3.9045	138	34
	1	-2.4125	163	18
	2	-1.5401	177	14
	3	-0.9165	188	13
	4	-0.3744	197	12
	5	0.1422	205	12
	6	0.6702	214	12
	7	1.2561	224	13
	8	1.9887	236	15
	9	3.0991	255	20
	10	4.8682	284	35
Historical Perspective	0	-3.9426	137	34
	1	-2.4870	162	17
	2	-1.6970	175	13
	3	-1.1887	183	11
	4	-0.7908	190	10
	5	-0.4481	196	10
	6	-0.1346	201	9
	7	0.1659	206	9
	8	0.4657	211	9
	9	0.7775	216	9
	10	1.1173	222	10
	11	1.5111	228	11
	12	2.0141	237	13
	13	2.7975	250	17
14	4.2473	274	34	

Appendix I. Score Frequency Distributions²

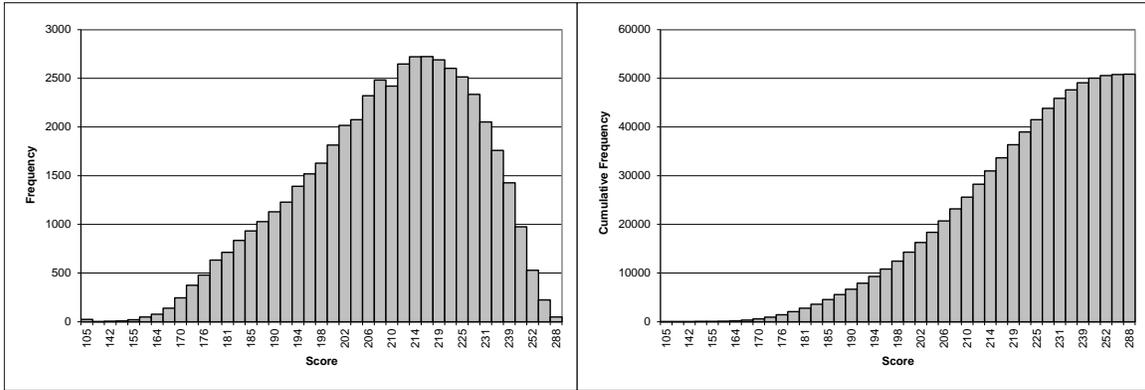


Figure 1. Reading Grade 3 Score Frequency and Cumulative Frequency Distributions

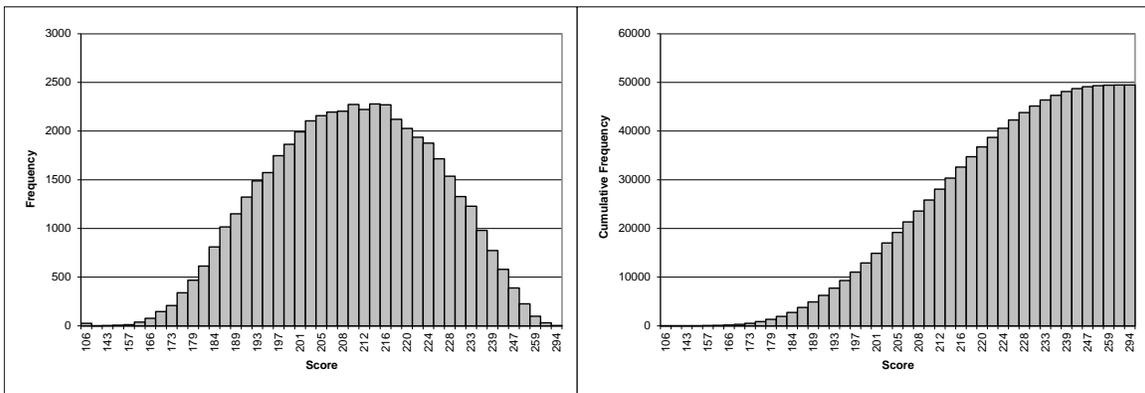


Figure 2. Reading Grade 4 Score Frequency and Cumulative Frequency Distributions

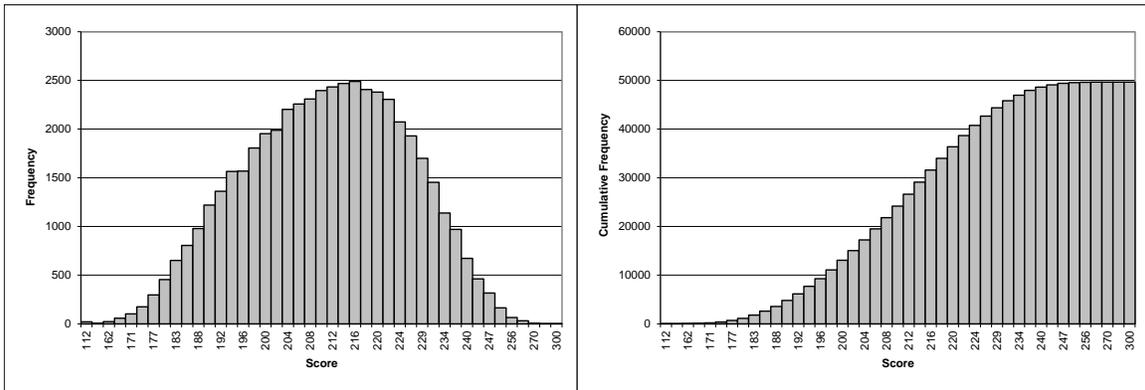


Figure 3. Reading Grade 5 Score Frequency and Cumulative Frequency Distributions

² Alternate K-PREP students are not included.

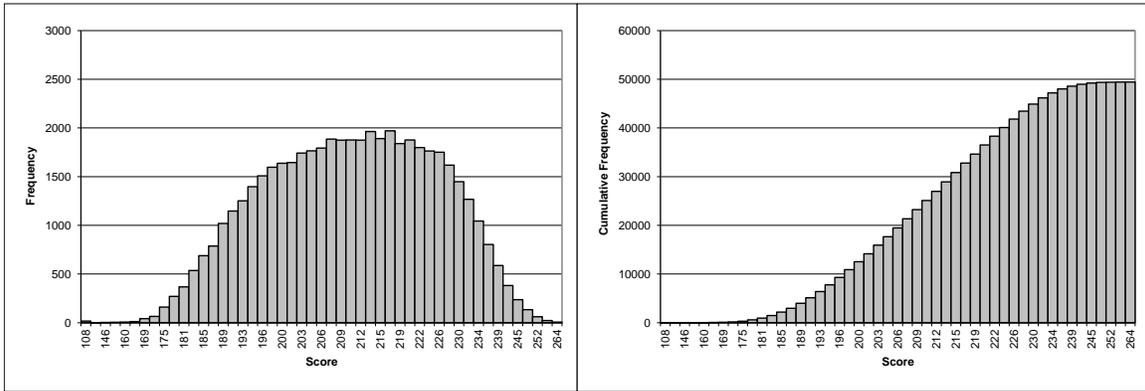


Figure 4. Reading Grade 6 Score Frequency and Cumulative Frequency Distributions

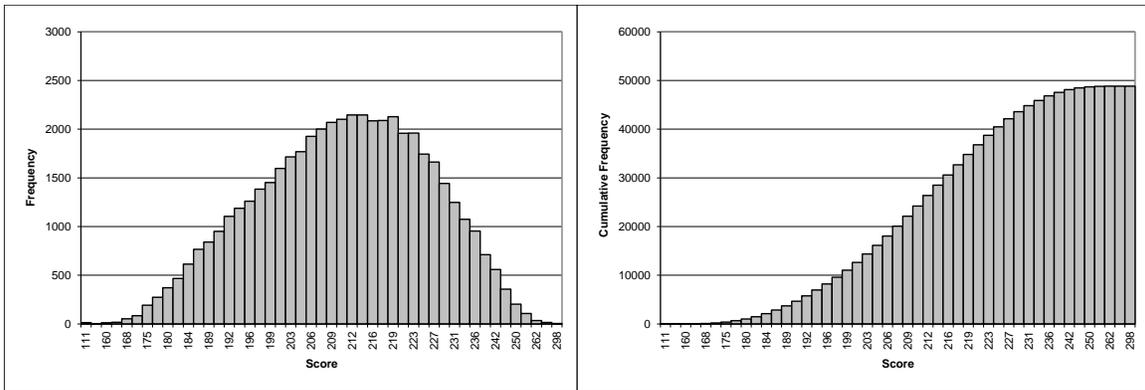


Figure 5. Reading Grade 7 Score Frequency and Cumulative Frequency Distributions

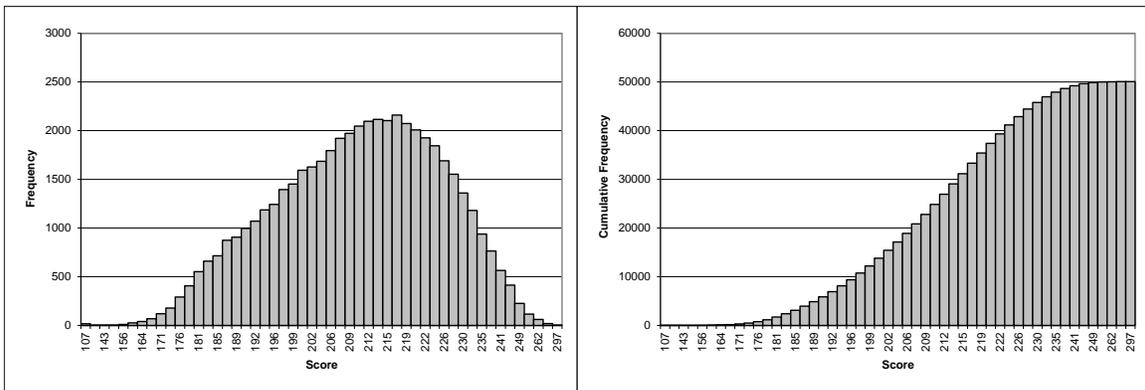


Figure 6. Reading Grade 8 Score Frequency and Cumulative Frequency Distributions

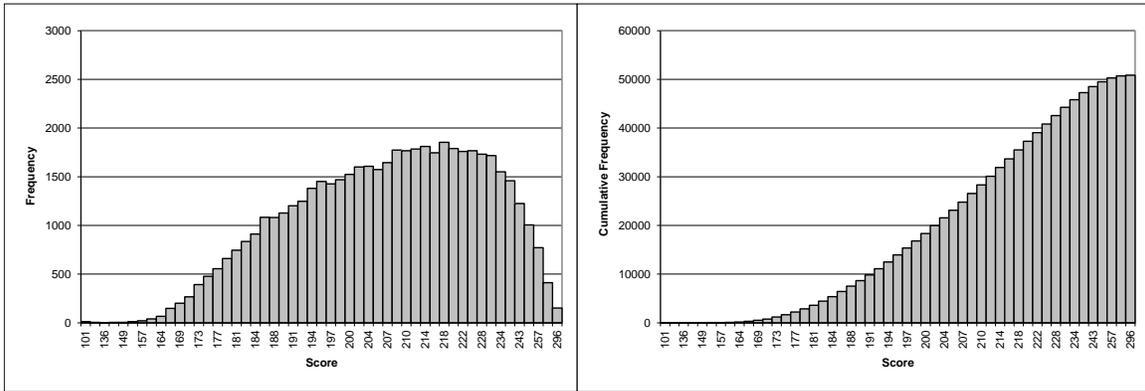


Figure 7. Mathematics Grade 3 Score Frequency and Cumulative Frequency Distributions

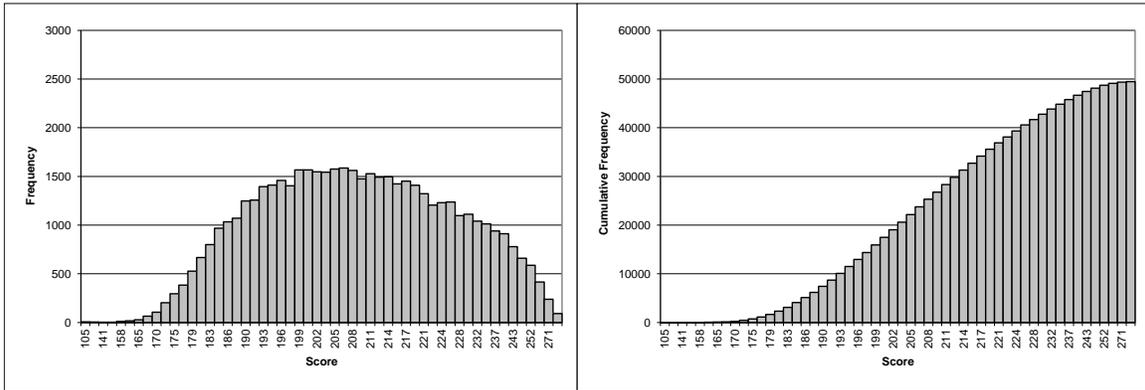


Figure 8. Mathematics Grade 4 Score Frequency and Cumulative Frequency Distributions

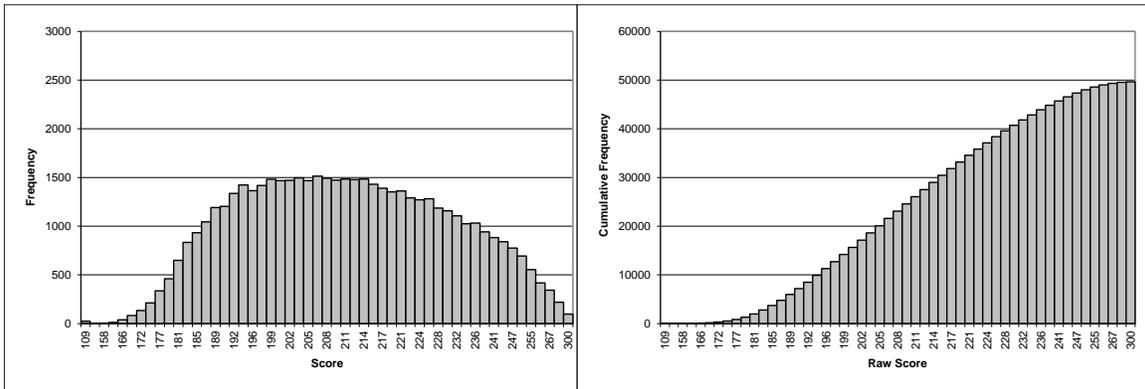


Figure 9. Mathematics Grade 5 Score Frequency and Cumulative Frequency Distributions

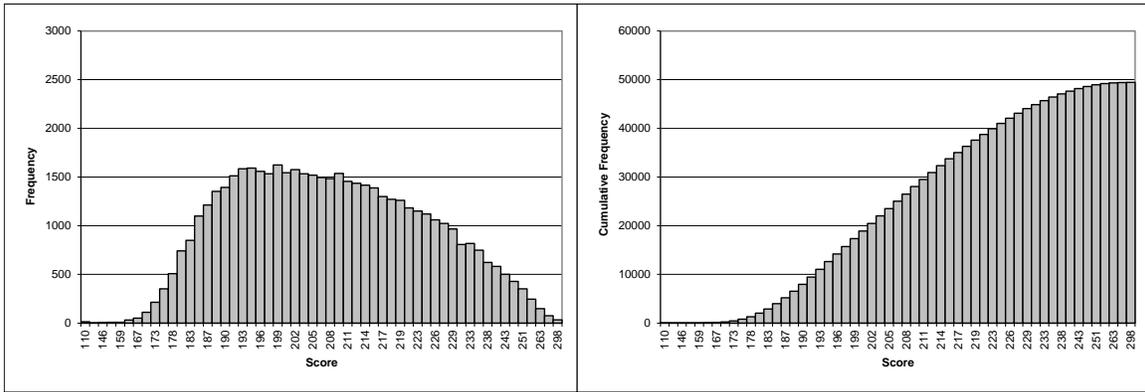


Figure 10. Mathematics Grade 6 Score Frequency and Cumulative Frequency Distributions

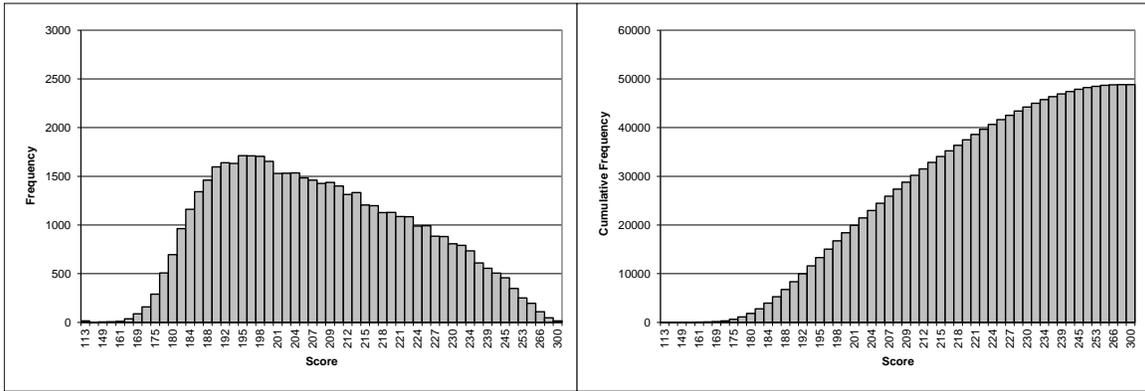


Figure 11. Mathematics Grade 7 Score Frequency and Cumulative Frequency Distributions

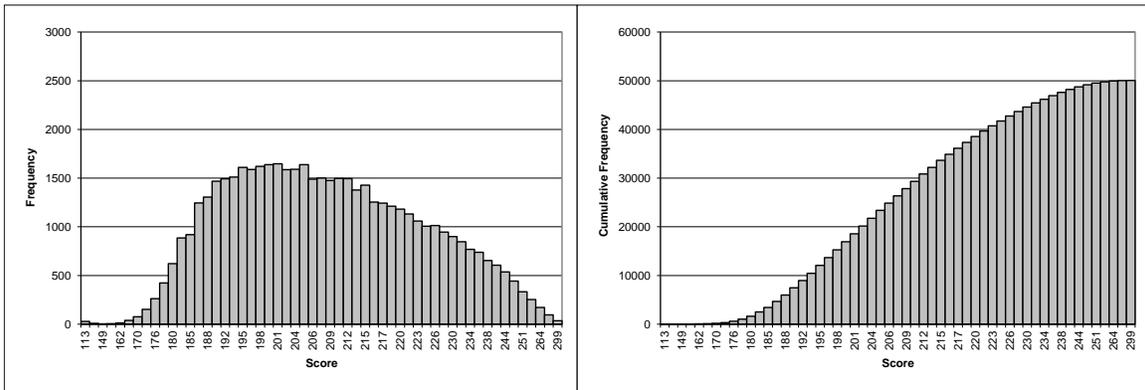


Figure 12. Mathematics Grade 8 Score Frequency and Cumulative Frequency Distributions

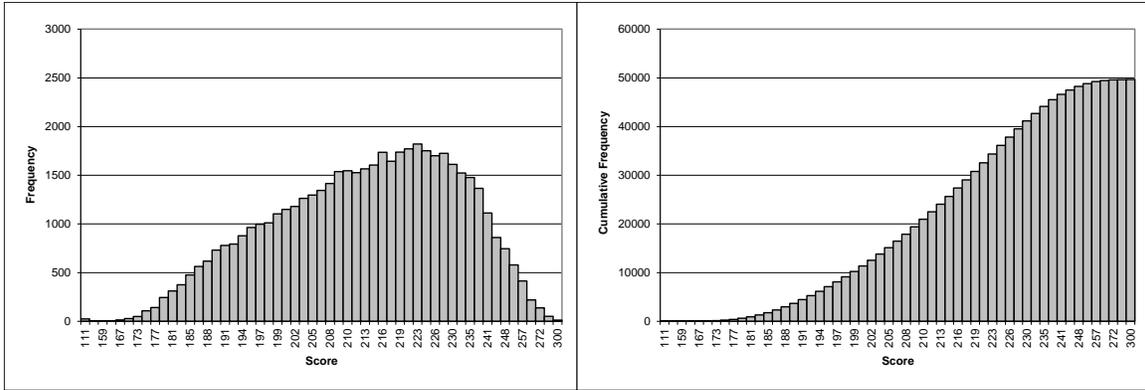


Figure 13. Social Studies Grade 5 Score Frequency and Cumulative Frequency Distributions

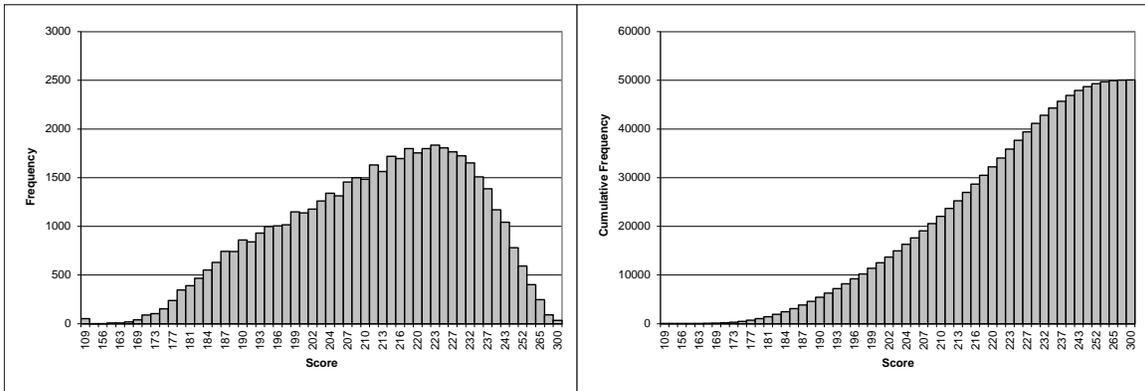


Figure 14. Social Studies Grade 8 Score Frequency and Cumulative Frequency Distributions

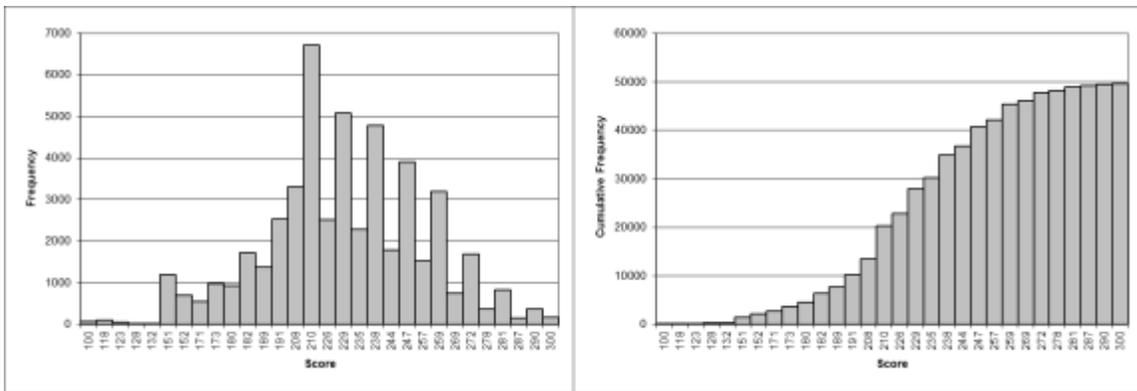


Figure 15. On Demand Writing Grade 5 Score Frequency and Cumulative Frequency Distributions

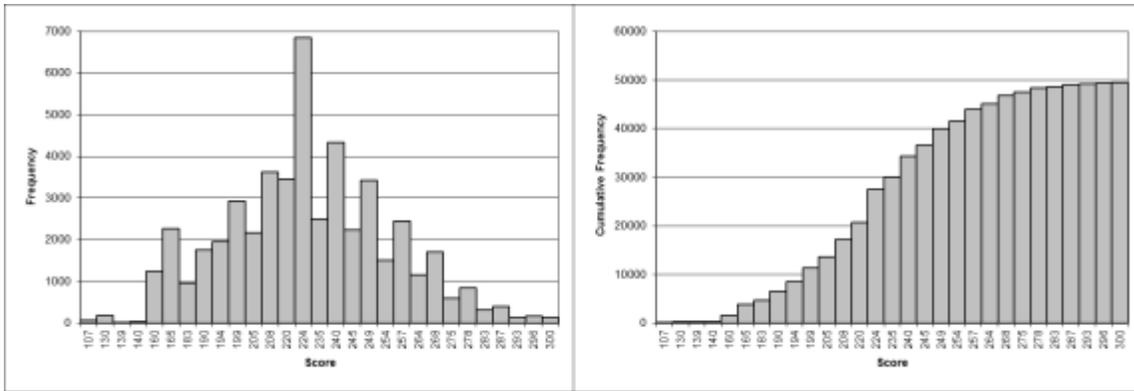


Figure 16. On Demand Writing Grade 6 Score Frequency and Cumulative Frequency Distributions

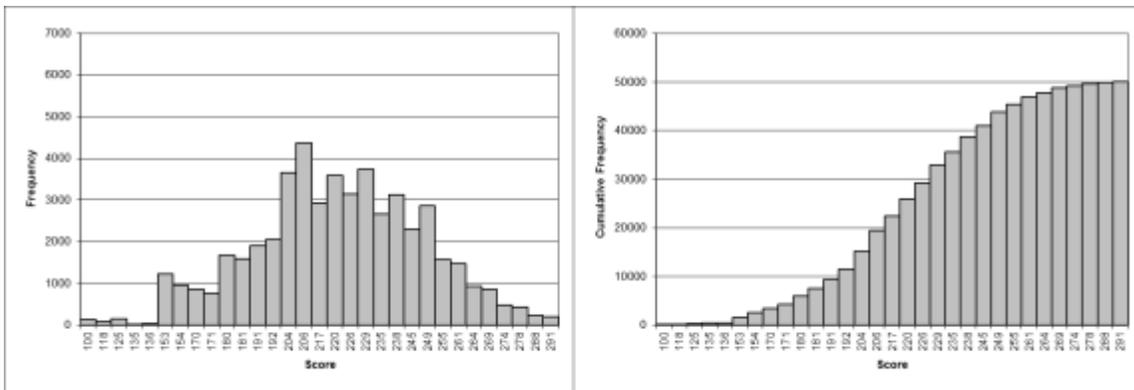


Figure 17. On Demand Writing Grade 8 Score Frequency and Cumulative Frequency Distributions

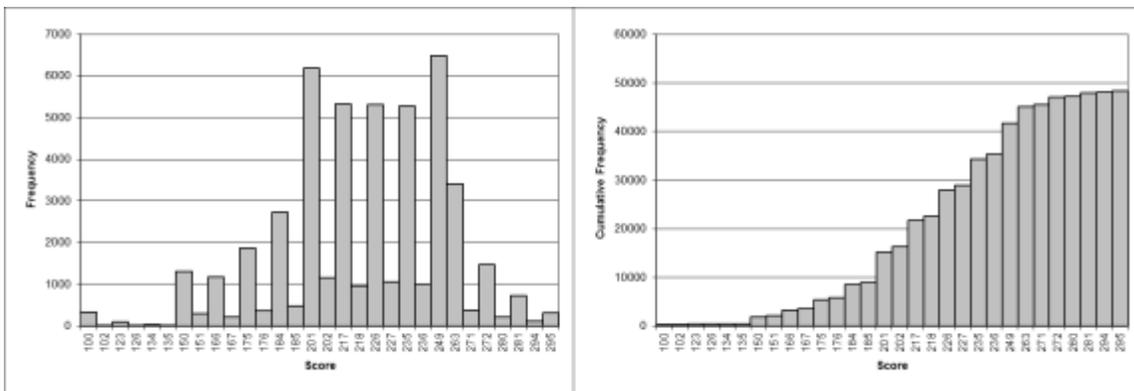


Figure 18. On Demand Writing Grade 10 Score Frequency and Cumulative Frequency Distributions

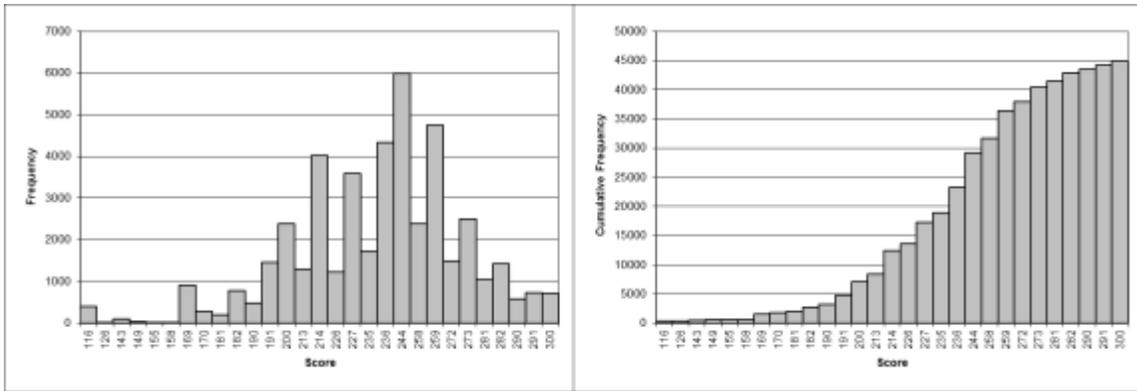


Figure 19. On Demand Writing Grade 11 Score Frequency and Cumulative Frequency Distributions

Appendix J. Score Frequency Distributions— Subdomain³

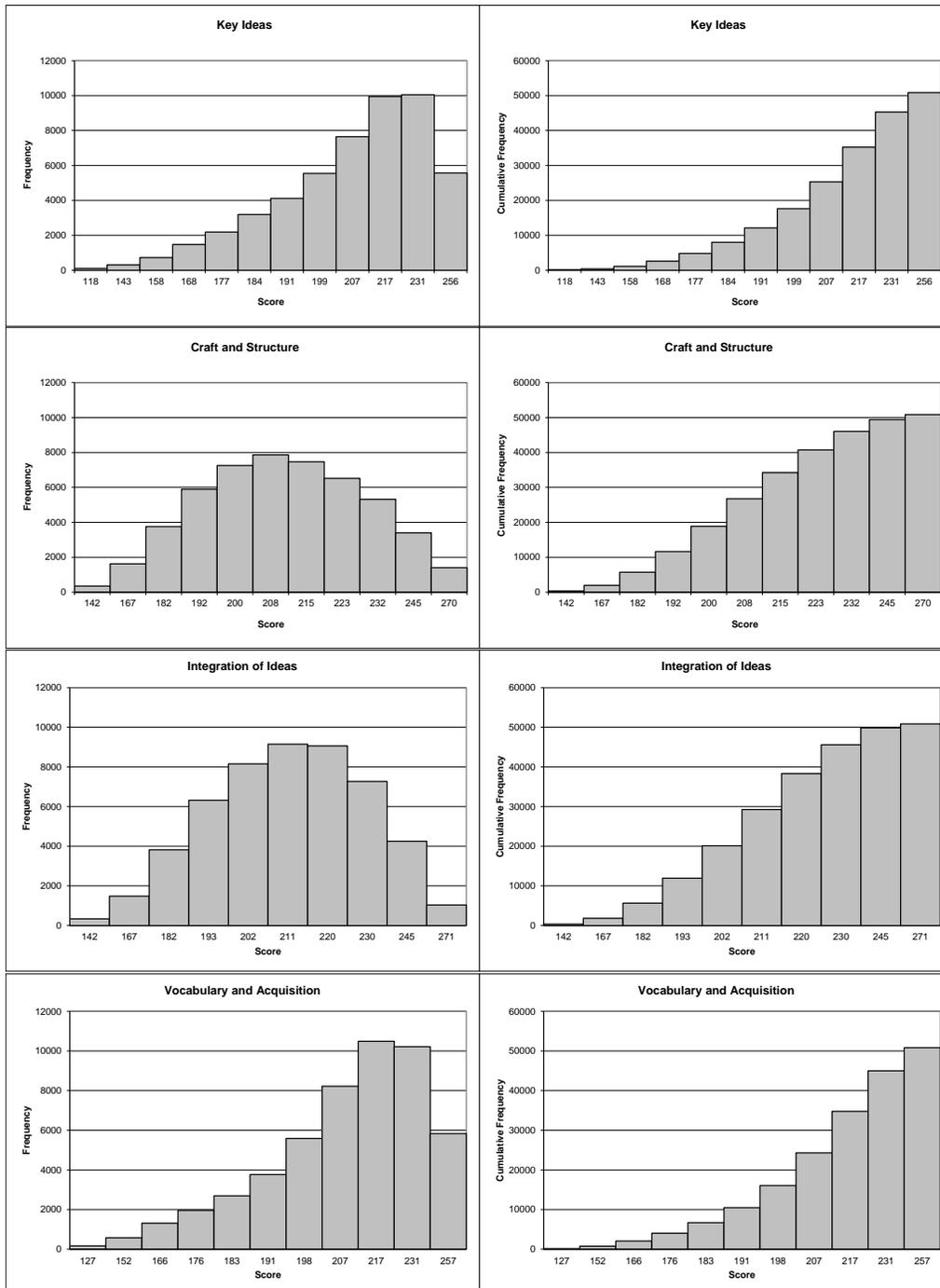


Figure 1. Reading Grade 3 Reporting Category Score Frequency and Cumulative Frequency Distributions

³ Alternate K-PREP students are not included.

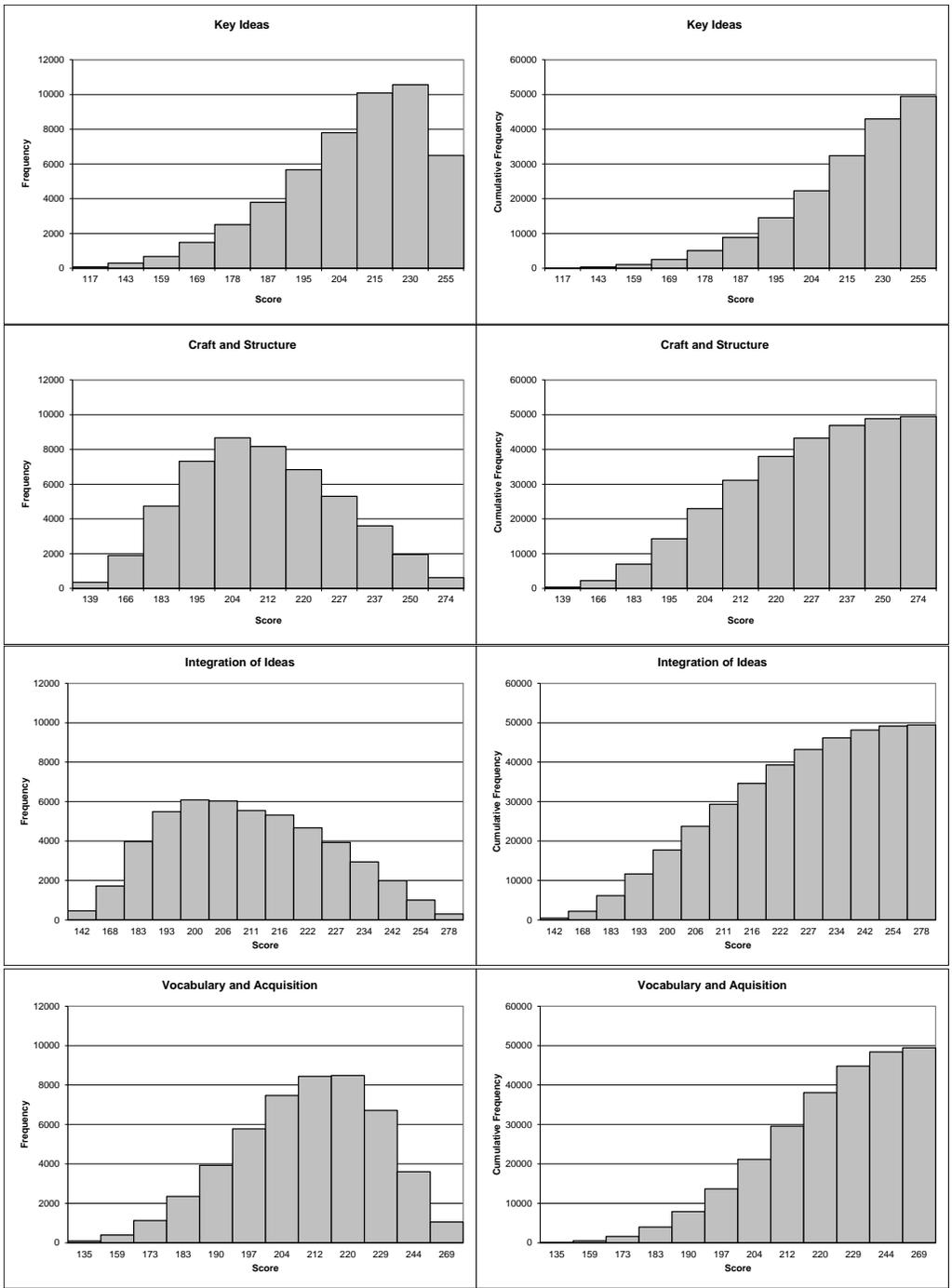


Figure 2. Reading Grade 4 Reporting Category Score Frequency and Cumulative Frequency Distributions

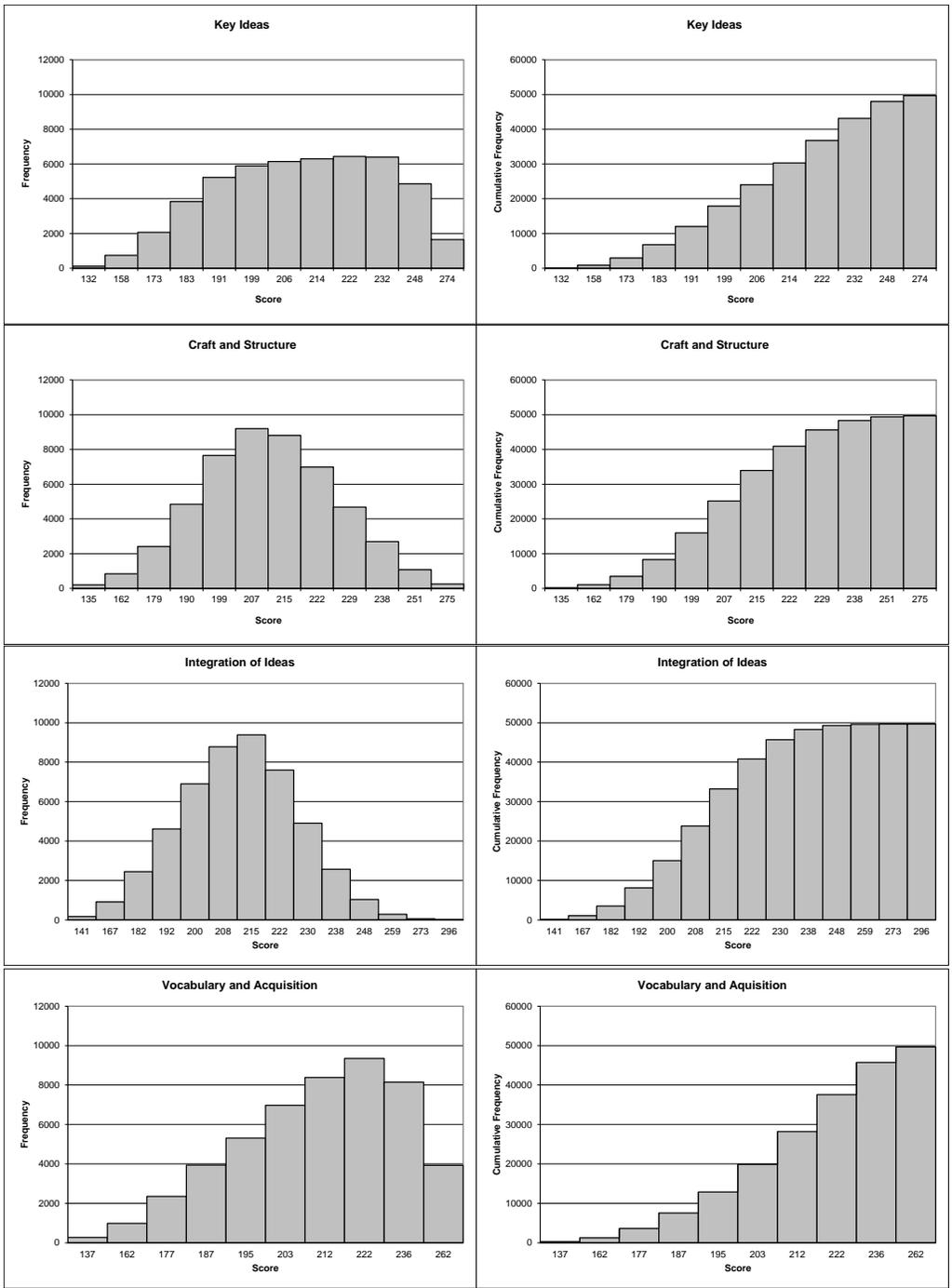


Figure 3. Reading Grade 5 Reporting Category Score Frequency and Cumulative Frequency Distributions

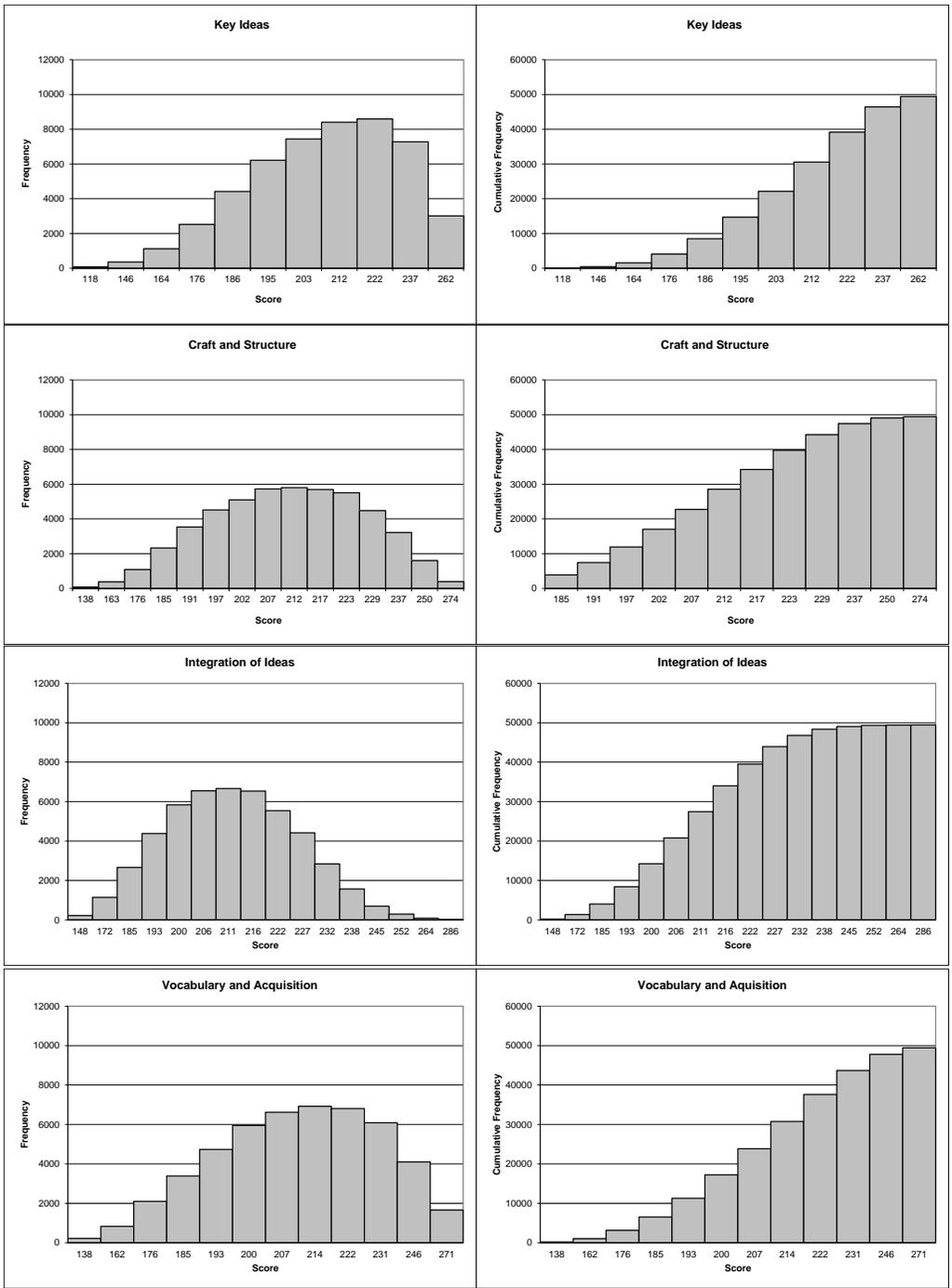


Figure 4. Reading Grade 6 Reporting Category Score Frequency and Cumulative Frequency Distributions

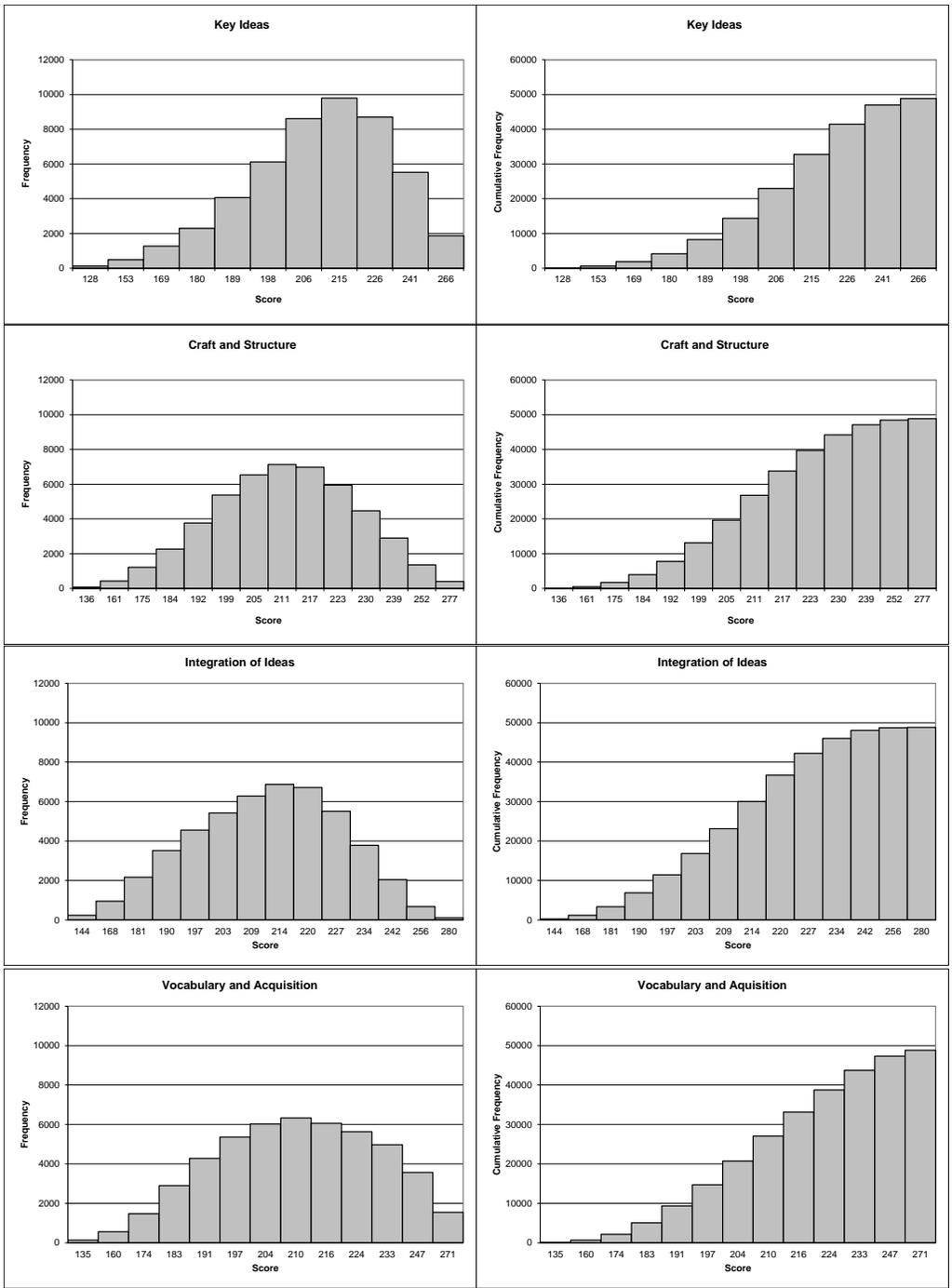


Figure 5. Reading Grade 7 Reporting Category Score Frequency and Cumulative Frequency Distributions

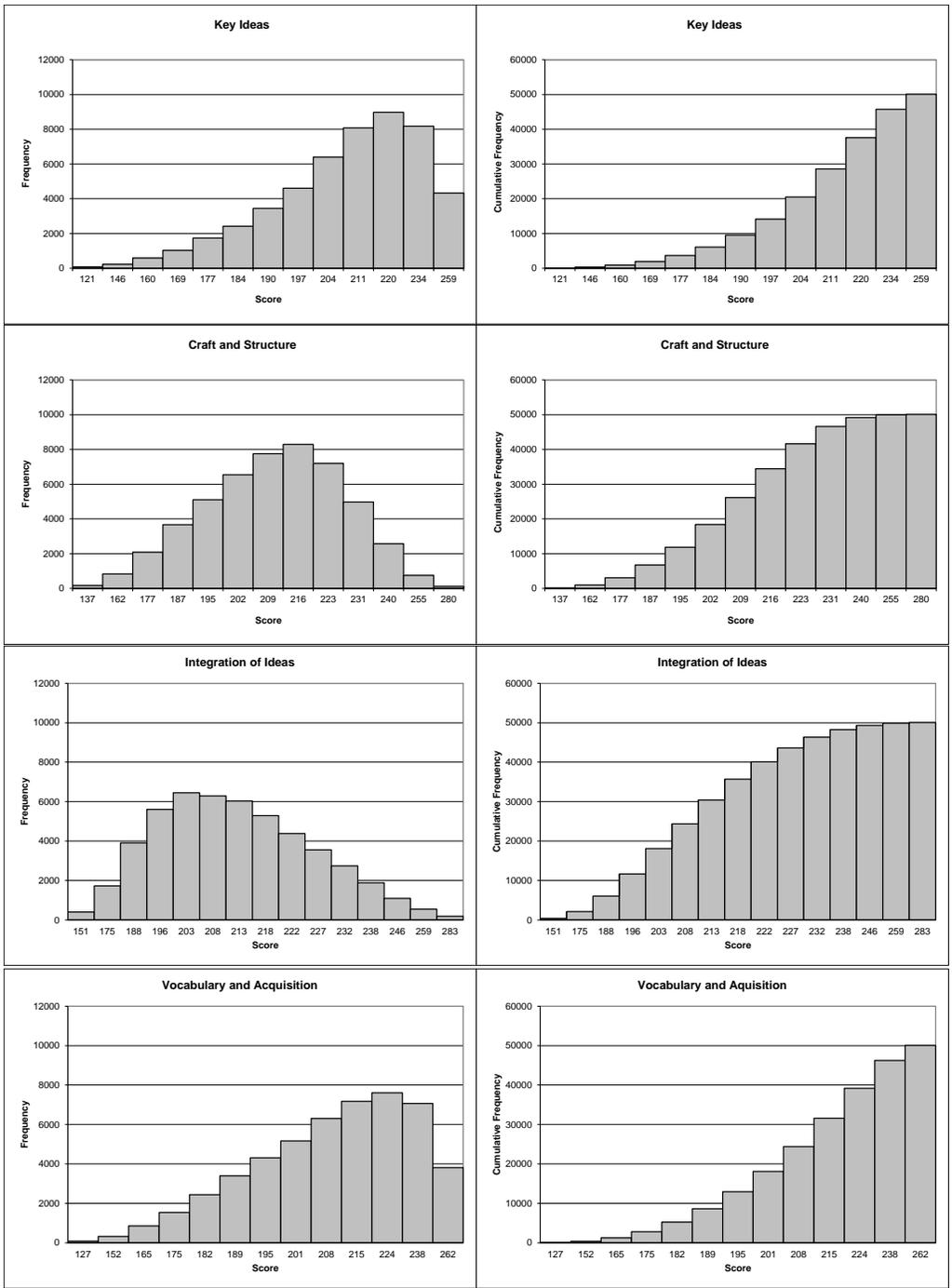


Figure 6. Reading Grade 8 Reporting Category Score Frequency and Cumulative Frequency Distributions

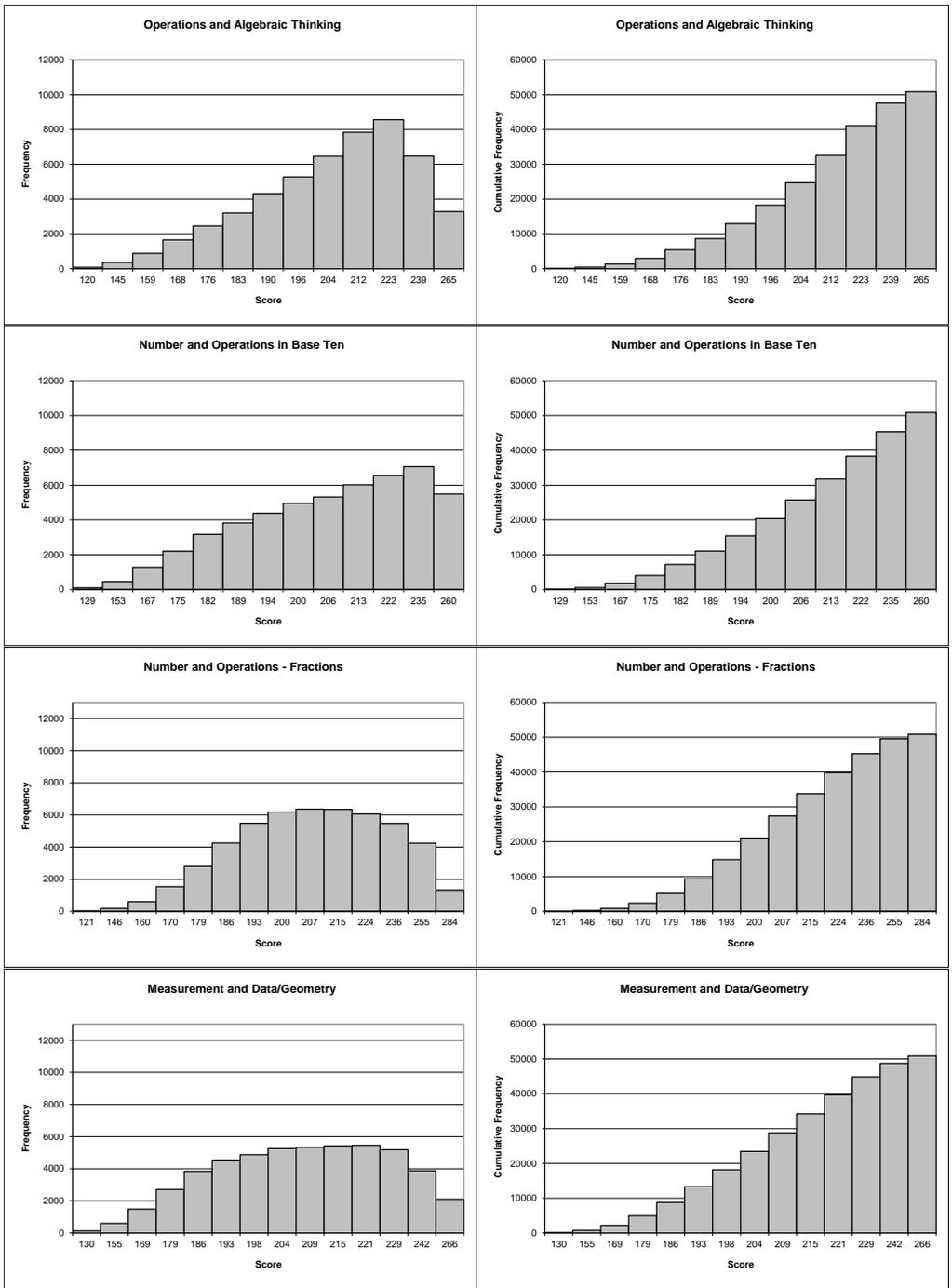


Figure 7. Mathematics Grade 3 Reporting Category Score Frequency and Cumulative Frequency Distributions

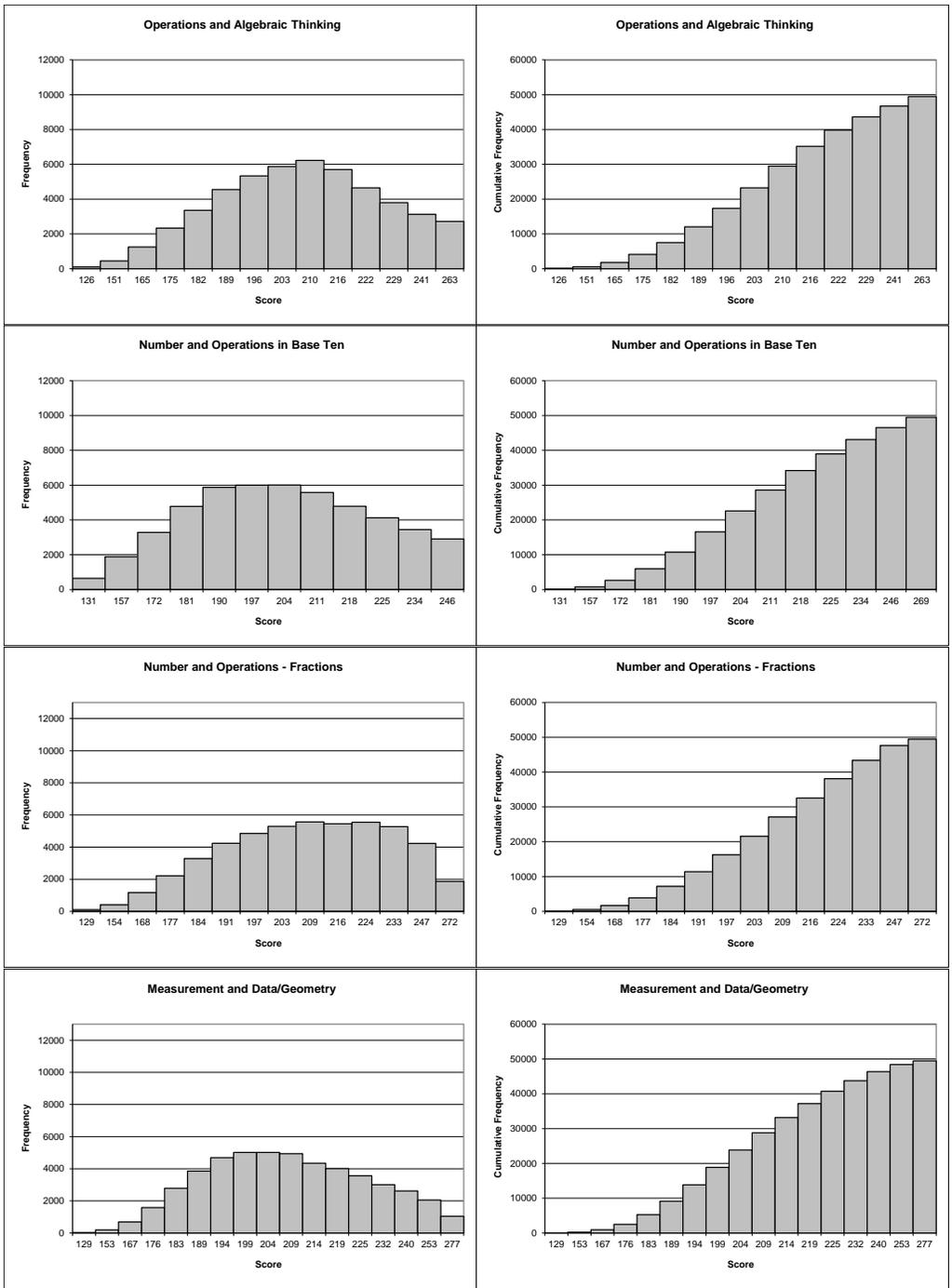


Figure 8. Mathematics Grade 4 Reporting Category Score Frequency and Cumulative Frequency Distributions

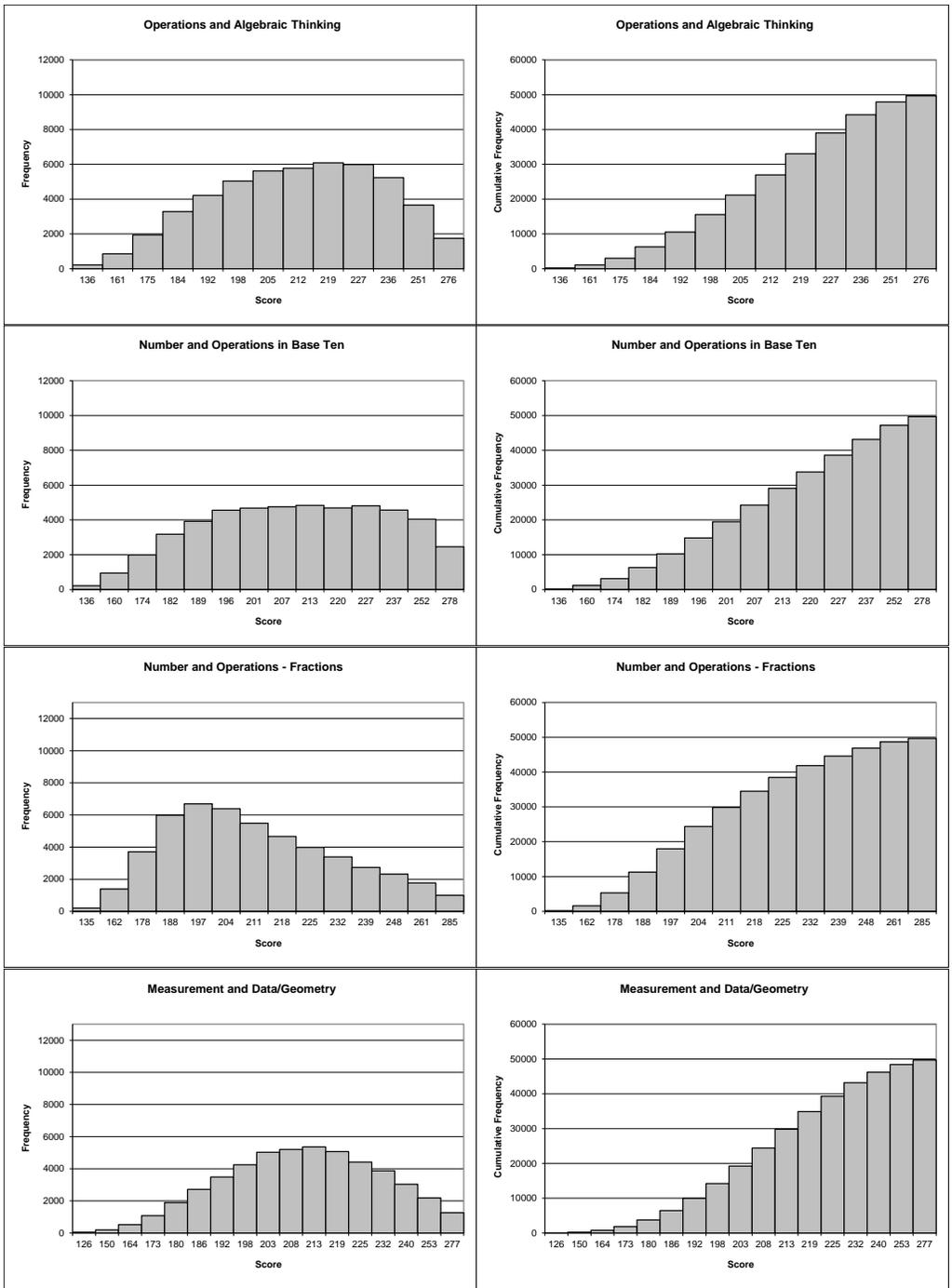


Figure 9. Mathematics Grade 5 Reporting Category Score Frequency and Cumulative Frequency Distributions

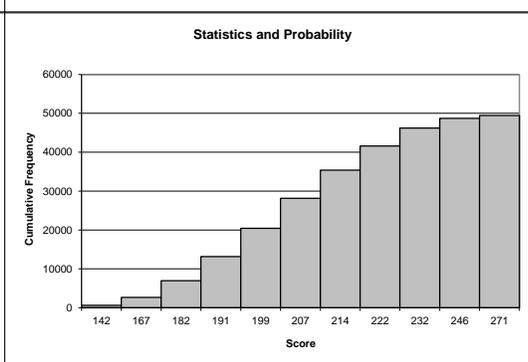
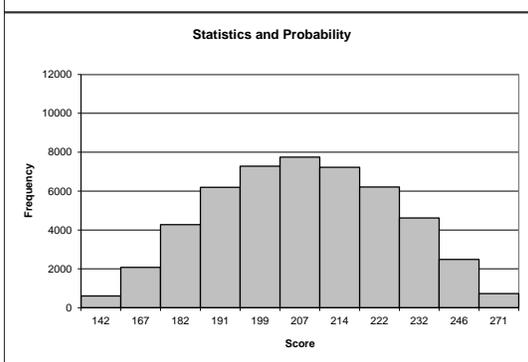
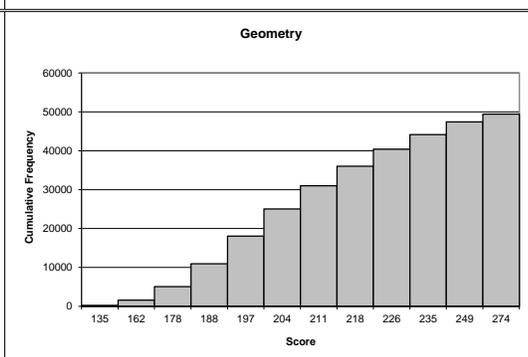
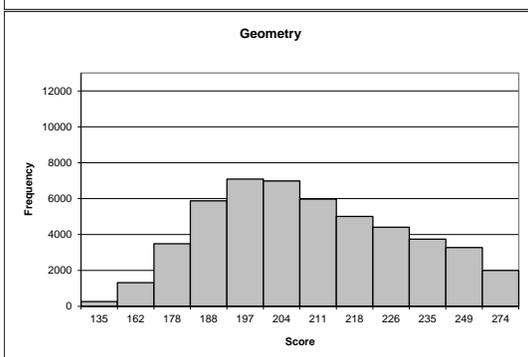
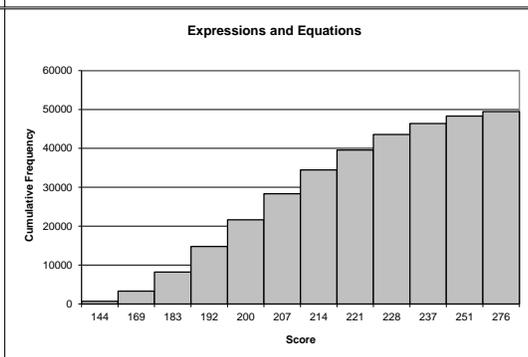
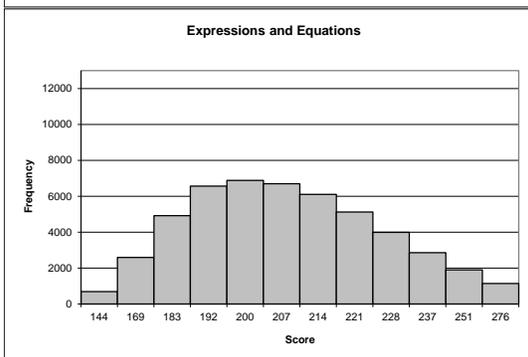
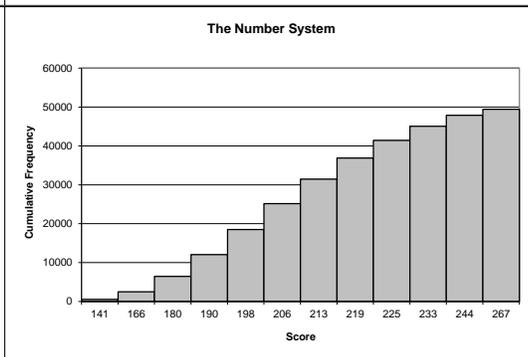
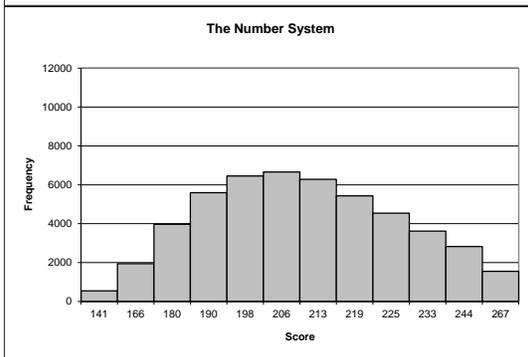
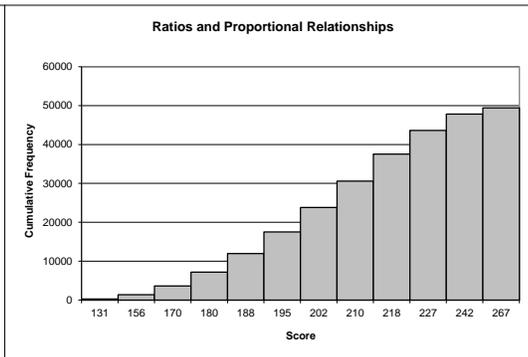
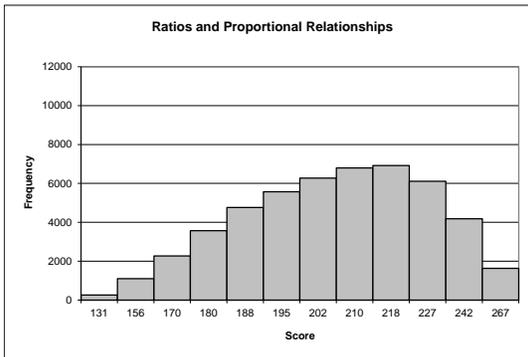


Figure 10. Mathematics Grade 6 Reporting Category Score Frequency and Cumulative Frequency Distributions

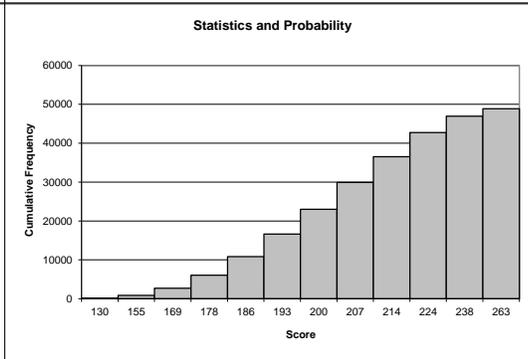
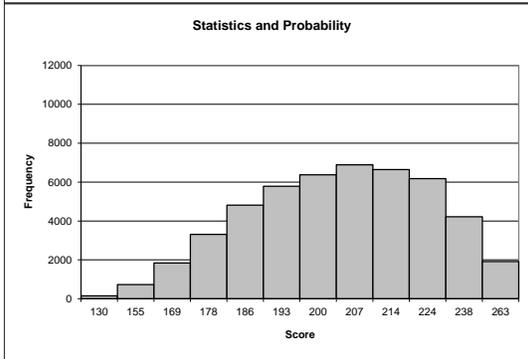
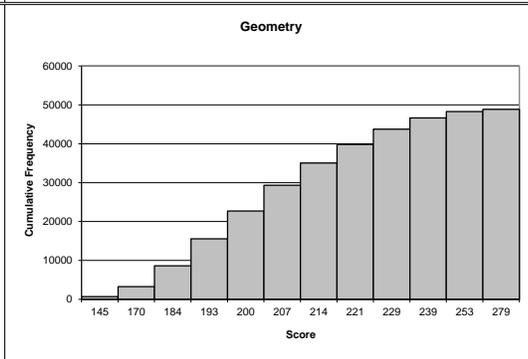
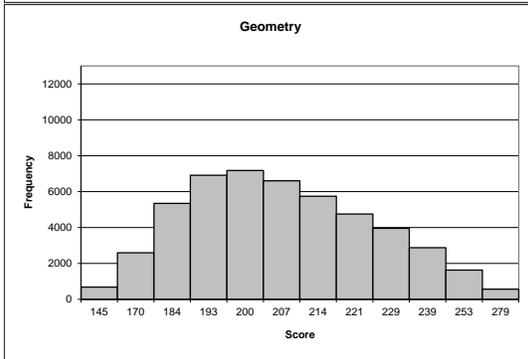
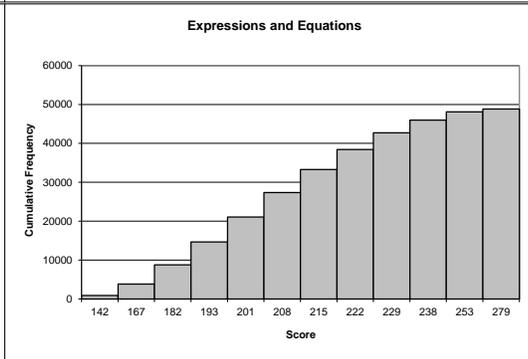
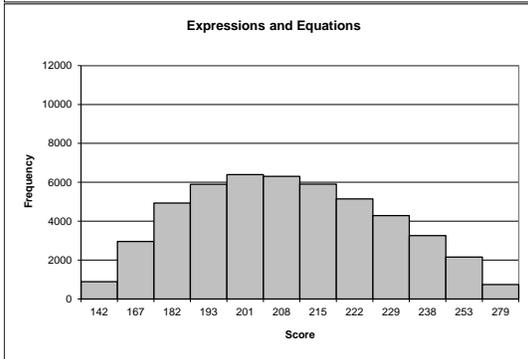
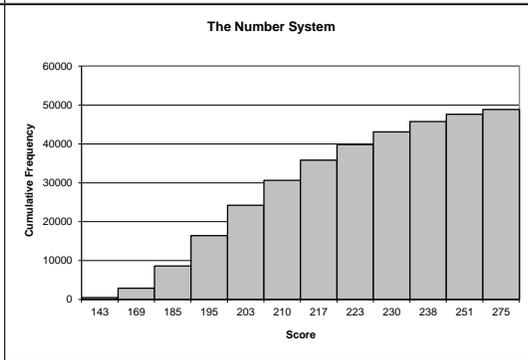
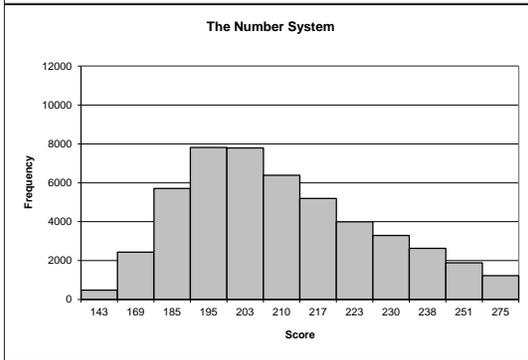
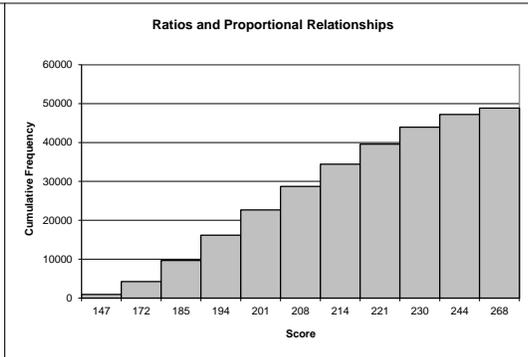
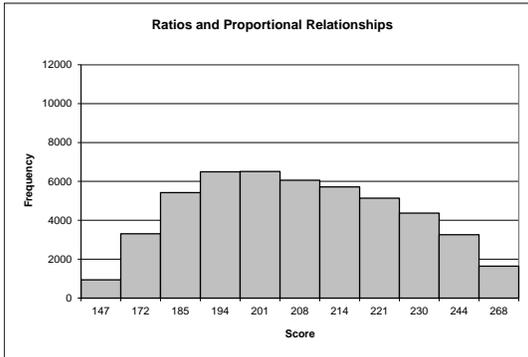


Figure 11. Mathematics Grade 7 Reporting Category Score Frequency and Cumulative Frequency Distributions

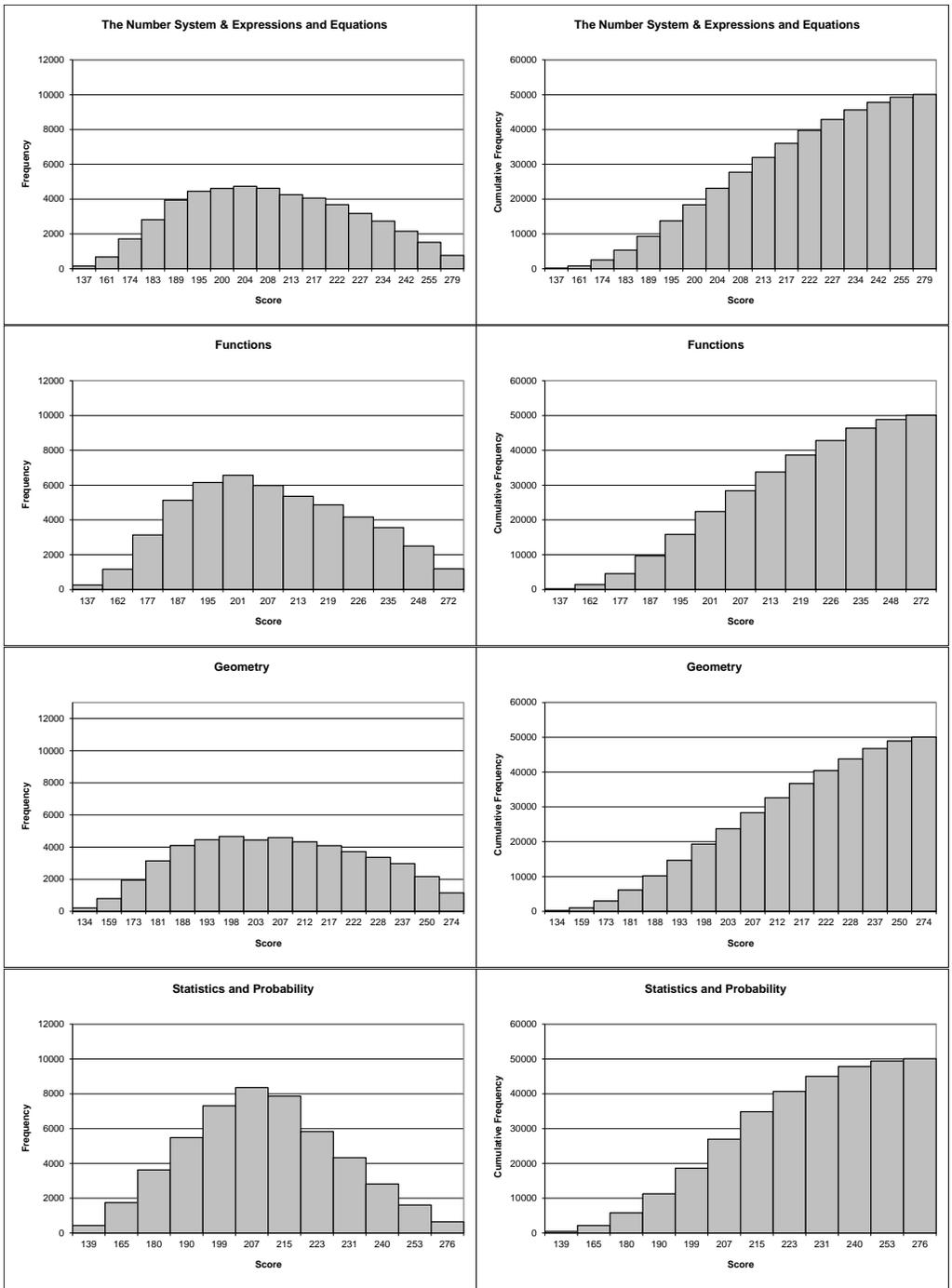


Figure 12. Mathematics Grade 8 Reporting Category Score Frequency and Cumulative Frequency Distributions

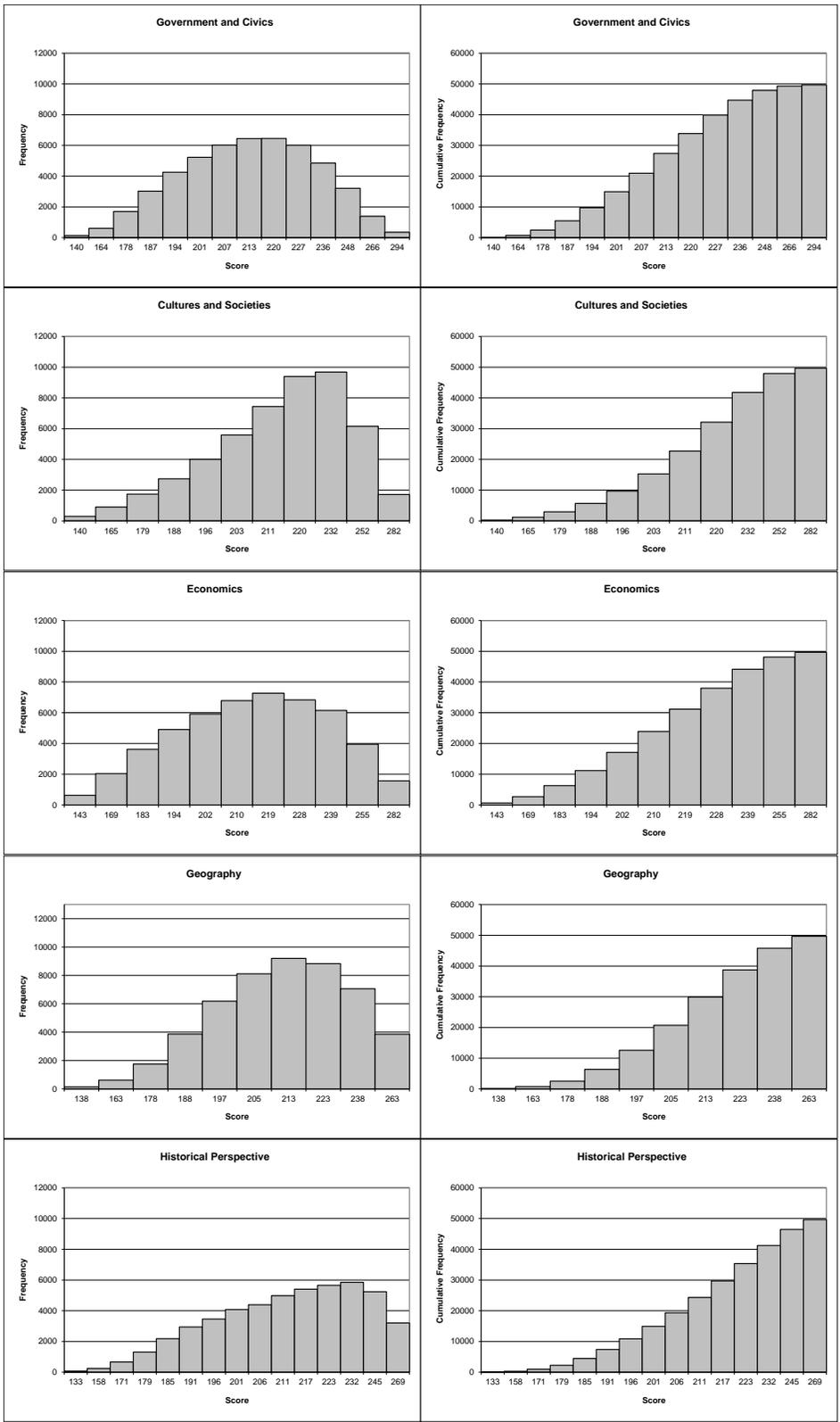


Figure 13. Social Studies Grade 5 Reporting Category Score Frequency and Cumulative Frequency Distributions

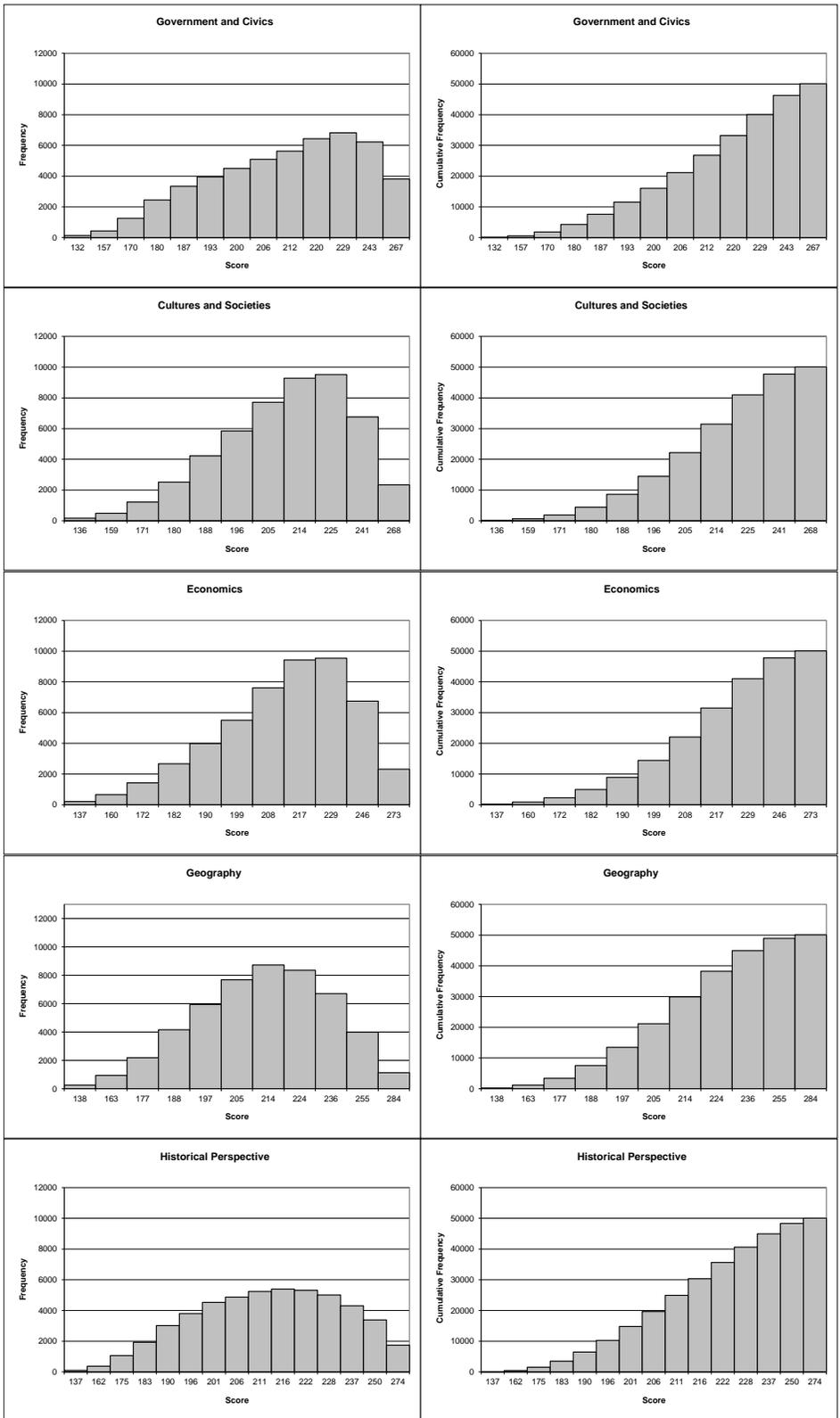


Figure 14. Social Studies Grade 8 Reporting Category Score Frequency and Cumulative Frequency Distributions

Appendix K. Scale Score Descriptive Statistics⁴⁵

Grade 3 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,847	210.74	17.6	200	210	222	288	-0.02
Gender	Female	24,699	212.22	17.3	202	212	225	288	0.06
	Male	26,148	209.33	17.9	198	210	222	288	-0.07
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,368	205.49	16.7	196	206	217	265	-0.53
	Asian	803	216.73	22.0	206	217	231	288	-1.44
	Native Hawaiian/Pacific Islander	45	206.96	14.7	196	208	217	239	0.03
	Black/African American	5,138	201.12	16.5	190	202	212	265	0.07
	American Indian	61	210.18	17.8	198	210	225	252	-0.01
	White	39,497	212.38	17.3	202	212	225	288	0.05
	Other	1,932	209.35	16.8	198	210	219	265	0.06
	Missing	3	--	--	--	--	--	--	--
Migrant	Non-Migrant	50,690	210.76	17.7	200	210	222	288	-0.02
	Migrant	157	204.24	14.1	194	204	214	235	-0.05
LEP	Non-LEP	48,497	211.21	17.6	200	212	222	288	0.05
	LEP	2,350	200.90	16.7	192	202	210	265	-1.69
Economic Disadvantage	Free Lunch	29,704	206.13	16.7	196	206	217	288	-0.06
	Reduced-Price Lunch	2,777	211.46	15.9	202	212	222	288	-0.12
	Regular Lunch	18,366	218.08	16.9	208	219	228	288	-0.05
IEP	Non-IEP	43,936	212.12	17.2	202	212	225	288	-0.04
	IEP	6,911	201.95	18.1	188	202	214	288	0.32

Grade 4 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,458	210.30	15.9	199	210	222	294	-0.09
Gender	Female	24,214	211.39	16.0	201	212	222	294	-0.12
	Male	25,244	209.26	15.8	199	208	220	294	-0.06
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,987	204.90	15.9	195	205	214	259	-0.93
	Asian	805	214.50	19.4	205	216	228	271	-1.17
	Native Hawaiian/Pacific Islander	53	209.83	16.2	199	208	224	239	-0.08
	Black/African American	5,000	202.07	15.3	191	201	212	271	0.08
	American Indian	56	209.73	15.0	199	210	220	239	-0.21
	White	38,805	211.79	15.6	201	212	222	294	0.00
	Other	1,742	208.21	15.1	197	208	218	252	0.04
	Missing	10	200.20	7.05	195	201	207	208	-0.38
Migrant	Non-Migrant	49,319	210.33	15.9	199	210	222	294	-0.09
	Migrant	139	202.14	13.2	191	203	212	239	-0.10

⁴ Alternate K-PREP students are not included.

⁵ Scale score statistics are not reported on n-counts less than 10.

LEP	Non-LEP	48,000	210.74	15.7	199	210	222	294	0.02
	LEP	1,458	196.08	16.8	189	197	205	259	-2.09
Economic Disadvantage	Free Lunch	27,992	205.92	14.9	195	207	216	271	-0.09
	Reduced-Price Lunch	2,811	210.88	15.1	201	210	222	271	0.03
	Regular Lunch	18,655	216.80	15.3	207	218	226	294	-0.23
IEP	Non-IEP	42,992	211.59	15.5	201	212	222	294	-0.10
	IEP	6,466	201.76	16.2	191	201	212	271	0.25

Grade 5 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,658	211.15	15.3	200	212	222	300	-0.11
Gender	Female	24,370	212.52	15.0	202	212	222	300	-0.17
	Male	25,288	209.82	15.5	198	210	220	270	-0.04
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,729	206.85	15.7	198	208	218	300	-0.96
	Asian	840	216.64	18.3	206	218	229	262	-1.21
	Native Hawaiian/Pacific Islander	45	212.20	14.9	200	214	222	243	0.07
	Black/African American	5,029	203.19	14.2	192	202	214	256	0.14
	American Indian	59	208.86	19.5	194	212	220	251	-0.06
	White	39,473	212.38	15.0	202	212	222	282	-0.04
	Other	1,474	210.32	15.1	200	210	220	256	0.04
	Missing	9	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,490	211.17	15.3	200	212	222	300	-0.11
	Migrant	168	204.05	14.8	194	204	212	256	0.37
LEP	Non-LEP	48,652	211.44	15.1	200	212	222	300	-0.01
	LEP	1,006	197.16	17.4	190	198	206	240	-2.16
Economic Disadvantage	Free Lunch	27,431	206.85	14.5	196	206	216	300	-0.09
	Reduced-Price Lunch	2,813	211.01	14.5	200	212	222	256	-0.24
	Regular Lunch	19,414	217.24	14.5	208	218	226	282	-0.21
IEP	Non-IEP	43,688	212.52	14.9	202	212	222	300	-0.13
	IEP	5,970	201.09	14.9	190	200	212	251	0.31

Grade 6 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,439	211.02	14.9	200	211	222	264	-0.13
Gender	Female	24,300	212.69	14.7	203	212	224	264	-0.14
	Male	25,139	209.41	14.8	198	209	220	264	-0.13
	Missing								
Ethnicity	Hispanic	2,652	206.97	15.2	196	208	217	257	-0.79
	Asian	815	217.08	16.3	208	219	228	252	-1.02
	Native Hawaiian/Pacific Islander	43	205.77	24.6	198	214	222	236	-1.88
	Black/African American	5,216	202.87	13.9	193	201	212	257	0.25
	American Indian	58	212.69	14.9	201	214	224	245	-0.05
	White	39,267	212.31	14.5	201	212	222	264	-0.10

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Other	1,382	209.30	14.5	200	209	220	252	0.08
	Missing	6	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,324	211.03	14.9	200	211	222	264	-0.13
	Migrant	115	205.40	13.0	196	206	214	234	-0.22
LEP	Non-LEP	48,621	211.31	14.7	201	211	222	264	-0.06
	LEP	818	193.74	15.5	187	195	201	236	-2.21
Economic Disadvantage	Free Lunch	27,107	206.66	14.0	196	206	217	264	-0.01
	Reduced-Price Lunch	2,863	210.89	13.8	201	211	220	264	-0.16
	Regular Lunch	19,469	217.11	14.0	208	219	228	264	-0.41
IEP	Non-IEP	43,834	212.52	14.3	203	212	222	264	-0.16
	IEP	5,605	199.26	13.9	189	198	208	248	0.36

Grade 7 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	48,853	211.48	15.2	201	212	221	298	-0.06
Gender	Female	23,706	213.45	14.6	204	214	223	298	0.01
	Male	25,147	209.61	15.4	199	209	221	298	-0.09
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,515	207.30	15.5	198	207	217	274	-0.89
	Asian	701	217.88	16.0	207	219	229	274	-0.13
	Native Hawaiian/Pacific Islander	37	210.86	13.4	201	214	219	239	-0.05
	Black/African American	5,297	202.89	14.3	192	203	212	262	0.13
	American Indian	58	208.50	14.1	196	209	217	236	-0.17
	White	38,910	212.89	14.8	203	212	223	298	-0.01
	Other	1,332	209.00	14.6	199	209	219	262	-0.13
	Missing	3	--	--	--	--	--	--	--
Migrant	Non-Migrant	48,728	211.49	15.2	201	212	221	298	-0.06
	Migrant	125	206.07	11.6	198	206	214	236	-0.11
LEP	Non-LEP	47,978	211.79	15.0	201	212	223	298	0.00
	LEP	875	194.44	14.9	189	194	203	233	-2.22
Economic Disadvantage	Free Lunch	26,580	206.96	14.3	198	207	217	298	-0.08
	Reduced-Price Lunch	2,757	212.08	13.9	203	212	221	255	-0.09
	Regular Lunch	19,516	217.54	14.3	207	217	227	298	-0.10
IEP	Non-IEP	43,895	212.99	14.6	203	212	223	298	-0.06
	IEP	4,958	198.06	13.6	189	196	207	250	0.41

Grade 8 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,072	210.74	15.7	201	212	222	297	-0.15
Gender	Female	24,421	213.26	15.0	204	214	224	297	-0.15
	Male	25,651	208.33	16.0	197	209	219	297	-0.10
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,365	207.38	16.4	197	209	219	274	-0.79
	Asian	752	216.85	21.7	202	219	233	297	-0.67
	Native Hawaiian/Pacific Islander	54	207.91	17.6	192	207	221	254	0.15
	Black/African American	5,300	202.71	15.0	192	202	214	254	-0.14
	American Indian	53	209.81	15.8	199	210	222	249	-0.03
	White	40,289	211.93	15.3	202	212	222	297	-0.10
	Other	1,254	209.20	15.1	199	209	219	274	0.07
	Missing	5	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,950	210.76	15.7	201	212	222	297	-0.15
	Migrant	122	202.98	14.5	192	206	212	238	-0.37
LEP	Non-LEP	49,126	211.09	15.5	201	212	222	297	-0.08
	LEP	946	192.54	16.3	185	192	202	233	-1.69
Economic Disadvantage	Free Lunch	26,468	206.12	15.0	196	207	217	274	-0.18
	Reduced-Price Lunch	2,892	210.86	14.8	201	212	221	262	-0.26
	Regular Lunch	20,712	216.62	14.8	207	217	226	297	-0.15
IEP	Non-IEP	45,111	212.40	15.0	202	212	222	297	-0.15
	IEP	4,961	195.64	14.2	185	194	204	254	0.38

Grade 3 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,847	209.65	20.5	196	209	222	296	0.48
Gender	Female	24,699	209.83	19.9	196	209	222	296	0.53
	Male	26,148	209.48	21.0	194	209	222	296	0.45
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	3,368	204.52	18.6	191	204	216	296	0.24
	Asian	803	223.54	25.0	207	222	238	296	0.16
	Native Hawaiian/Pacific Islander	45	206.29	18.1	196	205	218	249	0.15
	Black/African American	5,138	200.89	18.4	188	199	212	296	0.45
	American Indian	61	212.38	21.4	200	212	218	296	1.35
	White	39,497	211.04	20.4	197	210	225	296	0.48
	Other	1,932	207.62	19.4	194	207	220	296	0.51
	Missing	3	--	--	--	--	--	--	--
Migrant	Non-Migrant	50,690	209.67	20.5	196	209	222	296	0.48
	Migrant	157	203.31	17.2	191	202	214	249	0.43
LEP	Non-LEP	48,497	210.07	20.5	196	209	222	296	0.50
	LEP	2,350	201.03	18.1	189	200	212	271	-0.13
Economic Disadvantage	Free Lunch	29,704	204.39	18.7	191	204	216	296	0.46
	Reduced-Price Lunch	2,777	210.40	19.0	197	210	222	296	0.45

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Regular Lunch	18,366	218.04	20.5	204	216	231	296	0.46
IEP	Non-IEP	43,936	211.45	20.0	197	210	225	296	0.50
	IEP	6,911	198.22	19.6	184	196	210	296	0.81

Grade 4 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,458	209.92	18.8	196	208	222	294	0.51
Gender	Female	24,214	210.13	18.5	196	208	222	294	0.52
	Male	25,244	209.73	19.2	196	208	222	294	0.50
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,987	205.22	17.2	193	204	216	294	0.45
	Asian	805	222.99	22.7	207	222	237	294	0.22
	Native Hawaiian/Pacific Islander	53	211.45	19.4	196	211	222	259	0.55
	Black/African American	5,000	201.52	16.5	190	199	213	294	0.39
	American Indian	56	209.50	16.9	197	210	222	243	0.18
	White	38,805	211.22	18.8	198	210	222	294	0.49
	Other	1,742	207.29	17.8	194	205	219	294	0.73
	Missing	10	195.10	8.31	188	198	201	205	-0.72
Migrant	Non-Migrant	49,319	209.94	18.8	196	208	222	294	0.51
	Migrant	139	202.97	15.1	193	201	213	247	0.49
LEP	Non-LEP	48,000	210.30	18.8	196	208	222	294	0.52
	LEP	1,458	197.60	16.1	188	196	207	271	-0.11
Economic Disadvantage	Free Lunch	27,992	204.79	16.8	193	204	216	294	0.50
	Reduced-Price Lunch	2,811	210.11	17.7	198	208	221	294	0.55
	Regular Lunch	18,655	217.59	19.3	204	216	230	294	0.38
IEP	Non-IEP	42,992	211.59	18.5	199	210	222	294	0.51
	IEP	6,466	198.86	17.4	186	196	208	294	0.86

Grade 5 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,658	212.40	20.2	197	211	226	300	0.53
Gender	Female	24,370	212.68	19.5	199	211	224	300	0.52
	Male	25,288	212.14	20.9	197	209	226	300	0.54
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,729	207.25	18.6	196	206	219	300	-0.19
	Asian	840	227.24	25.6	209	226	244	300	-0.10
	Native Hawaiian/Pacific Islander	45	212.51	22.9	196	209	222	279	1.36
	Black/African American	5,029	203.67	17.0	191	202	214	300	0.66
	American Indian	59	209.14	19.5	196	209	221	255	0.31
	White	39,473	213.64	20.1	199	212	226	300	0.53
	Other	1,474	210.46	19.7	197	209	222	300	0.51
	Missing	9	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,490	212.43	20.2	197	211	226	300	0.53

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Migrant	168	203.61	15.3	193	202	214	260	0.72
LEP	Non-LEP	48,652	212.70	20.1	197	211	226	300	0.57
	LEP	1,006	198.31	19.3	189	199	206	279	-1.24
Economic Disadvantage	Free Lunch	27,431	206.52	17.7	194	205	217	300	0.46
	Reduced-Price Lunch	2,813	212.30	18.9	199	211	224	300	0.51
	Regular Lunch	19,414	220.73	20.8	206	219	234	300	0.42
IEP	Non-IEP	43,688	214.19	19.9	200	212	226	300	0.51
	IEP	5,970	199.36	17.7	187	196	208	300	1.07

Grade 6 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,439	208.27	17.5	195	207	219	298	0.45
Gender	Female	24,300	209.70	17.1	196	209	221	298	0.41
	Male	25,139	206.90	17.7	193	205	218	298	0.50
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,652	204.39	16.0	193	204	214	275	-0.03
	Asian	815	221.65	21.3	208	221	235	298	-0.10
	Native Hawaiian/Pacific Islander	43	207.33	23.0	198	207	221	256	0.03
	Black/African American	5,216	198.98	15.1	188	196	208	298	0.63
	American Indian	58	209.03	15.8	199	208	219	247	0.15
	White	39,267	209.58	17.2	196	208	221	298	0.44
	Other	1,382	205.64	17.2	193	204	217	298	0.61
	Missing	6	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,324	208.28	17.5	195	207	219	298	0.45
	Migrant	115	203.86	14.8	192	202	215	247	0.23
LEP	Non-LEP	48,621	208.52	17.4	196	207	219	298	0.47
	LEP	818	193.45	15.5	185	192	201	251	-0.43
Economic Disadvantage	Free Lunch	27,107	203.02	15.4	192	201	214	275	0.39
	Reduced-Price Lunch	2,863	208.05	16.1	196	208	218	275	0.24
	Regular Lunch	19,469	215.62	17.7	204	215	227	298	0.36
IEP	Non-IEP	43,834	209.97	17.0	198	209	221	298	0.46
	IEP	5,605	195.01	14.8	185	192	202	298	0.85

Grade 7 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	48,853	207.51	17.3	195	205	219	300	0.47
Gender	Female	23,706	208.21	16.7	197	207	219	300	0.49
	Male	25,147	206.85	17.9	193	205	219	300	0.48
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,515	202.77	15.7	192	201	212	278	0.36
	Asian	701	221.19	21.2	205	221	237	300	0.16
	Native Hawaiian/Pacific Islander	37	204.89	13.4	193	202	216	229	0.18
	Black/African American	5,297	197.87	14.6	188	197	207	300	0.55

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	American Indian	58	205.50	15.9	192	203	216	242	0.45
	White	38,910	209.00	17.2	197	208	221	300	0.45
	Other	1,332	204.02	16.6	193	202	213	300	0.46
	Missing	3	--	--	--	--	--	--	--
Migrant	Non-Migrant	48,728	207.52	17.4	195	205	219	300	0.47
	Migrant	125	200.50	13.7	190	200	211	237	0.24
LEP	Non-LEP	47,978	207.78	17.3	195	207	219	300	0.48
	LEP	875	192.75	13.7	184	192	200	258	-0.04
Economic Disadvantage	Free Lunch	26,580	202.06	15.3	192	200	212	278	0.45
	Reduced-Price Lunch	2,757	207.70	15.8	197	207	218	278	0.40
	Regular Lunch	19,516	214.90	17.5	202	213	227	300	0.38
IEP	Non-IEP	43,895	209.02	17.0	197	208	221	300	0.46
	IEP	4,958	194.09	14.2	184	192	200	278	1.07

Grade 8 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,072	208.78	17.5	197	208	220	299	0.47
Gender	Female	24,421	209.92	16.8	198	209	220	299	0.47
	Male	25,651	207.69	18.0	195	206	219	299	0.50
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,365	205.25	16.4	193	204	215	299	-0.10
	Asian	752	221.70	24.0	205	220	238	299	-0.03
	Native Hawaiian/Pacific Islander	54	208.61	19.4	197	206	220	276	0.97
	Black/African American	5,300	199.37	14.7	188	198	208	276	0.19
	American Indian	53	208.51	20.9	193	205	220	264	0.86
	White	40,289	210.06	17.3	198	209	222	299	0.49
	Other	1,254	206.05	16.4	195	204	216	264	0.56
	Missing	5	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,950	208.79	17.5	197	208	220	299	0.47
	Migrant	122	203.75	15.4	193	202	212	251	0.62
LEP	Non-LEP	49,126	209.04	17.4	197	208	220	299	0.51
	LEP	946	195.27	16.2	187	193	204	264	-0.98
Economic Disadvantage	Free Lunch	26,468	203.38	15.5	192	202	213	299	0.35
	Reduced-Price Lunch	2,892	208.89	15.7	198	208	219	264	0.31
	Regular Lunch	20,712	215.66	17.7	204	215	226	299	0.48
IEP	Non-IEP	45,111	210.32	17.1	198	209	222	299	0.47
	IEP	4,961	194.74	14.0	185	192	201	276	0.92

Grade 5 Social Studies

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,658	215.04	17.6	202	215	226	300	0.19
Gender	Female	24,370	214.65	17.2	202	215	226	300	0.25
	Male	25,288	215.41	18.0	202	215	228	300	0.15

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,729	210.05	17.0	199	210	221	272	-0.79
	Asian	840	222.51	22.4	209	223	235	300	-0.37
	Native Hawaiian/Pacific Islander	45	215.07	19.5	201	212	223	285	1.49
	Black/African American	5,029	205.32	15.6	194	205	216	272	0.34
	American Indian	59	216.34	20.7	201	215	228	272	0.63
	White	39,473	216.52	17.3	205	216	228	300	0.24
	Other	1,474	213.39	17.0	202	213	224	285	0.21
	Missing	9	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,490	215.06	17.6	202	215	226	300	0.19
	Migrant	168	207.73	17.2	195	206	218	272	0.79
LEP	Non-LEP	48,652	215.36	17.5	203	215	226	300	0.27
	LEP	1,006	199.37	18.7	191	199	209	263	-1.83
Economic Disadvantage	Free Lunch	27,431	209.98	16.2	198	209	221	285	0.15
	Reduced-Price Lunch	2,813	214.78	16.5	203	215	226	300	0.19
	Regular Lunch	19,414	222.22	17.2	210	223	233	300	0.15
IEP	Non-IEP	43,688	216.69	17.1	205	216	228	300	0.19
	IEP	5,970	202.95	16.8	191	201	213	285	0.66

Grade 8 Social Studies

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,072	213.75	18.4	200	213	225	300	0.06
Gender	Female	24,421	214.13	17.5	202	213	225	300	0.16
	Male	25,651	213.38	19.3	199	213	227	300	-0.01
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,365	209.61	18.3	197	209	221	300	-0.40
	Asian	752	221.80	24.3	206	223	237	300	-0.43
	Native Hawaiian/Pacific Islander	54	211.89	20.8	197	210	223	300	1.48
	Black/African American	5,300	203.90	17.1	192	203	215	300	-0.03
	American Indian	53	212.98	18.9	202	215	227	257	-0.21
	White	40,289	215.21	18.0	203	215	227	300	0.10
	Other	1,254	211.32	18.2	199	210	223	265	0.03
	Missing	5	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,950	213.77	18.4	200	213	225	300	0.06
	Migrant	122	205.11	16.1	193	204	215	252	0.26
LEP	Non-LEP	49,126	214.12	18.3	202	215	227	300	0.09
	LEP	946	194.43	16.6	187	193	203	243	-1.60
Economic Disadvantage	Free Lunch	26,468	208.13	17.2	196	207	220	300	-0.07
	Reduced-Price Lunch	2,892	214.37	17.5	203	213	225	300	0.12
	Regular Lunch	20,712	220.84	17.5	210	221	232	300	0.17
IEP	Non-IEP	45,111	215.57	17.7	203	215	227	300	0.07
	IEP	4,961	197.15	16.3	186	194	207	265	0.46

Grade 4 Language Mechanics⁶

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,421	642.43	42.0	616	639	670	747	0.20
Gender	Female	24,192	649.16	41.9	621	645	670	747	0.15
	Male	25,229	635.97	41.1	605	632	661	747	0.25
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,972	631.77	38.4	605	632	652	747	0.36
	Asian	800	660.58	46.9	632	661	698	747	-0.17
	Native Hawaiian/Pacific Islander	53	646.53	38.1	627	639	670	747	0.63
	Black/African American	4,995	623.17	39.8	595	621	652	747	0.32
	American Indian	56	636.41	39.8	608	645	661	724	-0.30
	White	38,794	645.56	41.6	616	645	670	747	0.18
	Other	1,741	638.05	40.2	610	639	661	747	0.23
	Missing	10	609.10	25.7	600	616	627	639	-0.89
Migrant	Non-Migrant	49,282	642.48	42.0	616	639	670	747	0.20
	Migrant	139	623.83	36.8	595	621	652	747	0.29
LEP	Non-LEP	47,986	643.40	41.9	616	645	670	747	0.19
	LEP	1,435	609.97	32.6	584	610	632	747	0.43
Economic Disadvantage	Free Lunch	27,968	630.86	39.4	605	632	652	747	0.28
	Reduced-Price Lunch	2,811	644.61	39.8	621	645	670	747	0.25
	Regular Lunch	18,642	659.45	40.2	632	661	682	747	0.09
IEP	Non-IEP	42,957	647.11	40.4	621	645	670	747	0.21
	IEP	6,464	611.27	38.8	584	605	632	747	0.68

Grade 6 Language Mechanics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,403	657.82	41.9	628	656	688	766	0.28
Gender	Female	24,285	665.78	40.6	639	663	688	766	0.24
	Male	25,118	650.12	41.7	623	650	679	766	0.38
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,641	649.28	38.6	623	644	670	766	0.38
	Asian	813	676.25	44.1	650	679	700	766	-0.03
	Native Hawaiian/Pacific Islander	41	660.10	50.6	639	670	688	766	-0.58
	Black/African American	5,211	638.48	38.3	613	634	663	766	0.45
	American Indian	58	668.19	39.6	639	670	688	766	0.01
	White	39,254	660.68	41.7	634	656	688	766	0.26
	Other	1,379	654.32	39.7	628	656	679	766	0.34
	Missing	6	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,288	657.85	41.9	628	656	688	766	0.28
	Migrant	115	642.03	35.9	618	644	663	742	-0.02
LEP	Non-LEP	48,599	658.47	41.7	628	656	688	766	0.28
	LEP	804	618.08	31.6	598	616	639	766	0.53
Economic	Free Lunch	27,082	645.72	38.5	618	644	670	766	0.36

⁶ Language Mechanics is not on the same scale metric as the previous subjects.

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
Disadvantage	Reduced-Price Lunch	2,862	657.77	39.5	634	656	679	766	0.29
	Regular Lunch	19,459	674.65	40.9	650	670	700	766	0.14
IEP	Non-IEP	43,804	662.61	40.3	634	663	688	766	0.30
	IEP	5,599	620.30	34.3	598	618	639	766	0.76

Grade 5 On-Demand Writing⁷

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,658	224.00	31.9	208	229	247	300	-0.45
Gender	Female	24,370	232.38	29.7	210	238	257	300	-0.55
	Male	25,288	215.93	31.9	191	210	238	300	-0.35
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,729	217.39	31.8	191	226	238	300	-0.51
	Asian	840	235.38	34.5	210	238	259	300	-1.00
	Native Hawaiian/Pacific Islander	45	225.38	35.0	208	229	257	287	-0.68
	Black/African American	5,029	212.18	32.2	189	210	235	300	-0.28
	American Indian	59	219.36	36.7	191	226	247	281	-0.38
	White	39,473	225.77	31.4	208	229	247	300	-0.46
	Other	1,474	223.04	31.9	208	229	244	300	-0.45
	Missing	9	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,490	224.03	31.9	208	229	247	300	-0.45
	Migrant	168	215.15	31.0	191	226	238	290	-0.31
LEP	Non-LEP	48,652	224.54	31.7	208	229	247	300	-0.44
	LEP	1,006	198.05	34.4	180	208	226	300	-0.46
Economic Disadvantage	Free Lunch	27,431	216.42	31.6	191	210	238	300	-0.39
	Reduced-Price Lunch	2,813	224.12	30.8	208	229	244	300	-0.46
	Regular Lunch	19,414	234.71	29.3	210	238	257	300	-0.55
IEP	Non-IEP	43,688	227.93	29.4	210	229	247	300	-0.40
	IEP	5,970	195.23	35.0	173	191	210	300	0.17

Grade 6 On-Demand Writing

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,439	224.83	31.1	205	224	249	300	-0.33
Gender	Female	24,300	232.69	29.0	220	235	254	300	-0.43
	Male	25,139	217.24	31.1	199	220	240	300	-0.21
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,652	219.41	30.8	199	224	240	300	-0.36
	Asian	815	237.59	33.4	224	240	257	300	-0.94
	Native Hawaiian/Pacific Islander	43	221.98	44.5	205	235	249	293	-1.20
	Black/African American	5,216	211.12	30.2	194	208	235	300	-0.15
	American Indian	58	226.40	37.8	205	235	254	296	-0.81
	White	39,267	226.86	30.6	205	224	249	300	-0.35

⁷ On Demand Writing is reported on a scale score metric of 100-300 with 'Proficient' at 235.

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Other	1,382	221.97	29.5	199	224	245	300	-0.33
	Missing	6	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,324	224.85	31.1	205	224	249	300	-0.33
	Migrant	115	218.33	27.7	199	220	240	300	-0.01
LEP	Non-LEP	48,621	225.34	30.8	205	224	249	300	-0.32
	LEP	818	195.00	33.3	165	199	220	283	-0.28
Economic Disadvantage	Free Lunch	27,107	216.90	30.2	199	220	240	300	-0.26
	Reduced-Price Lunch	2,863	224.26	29.7	205	224	245	300	-0.40
	Regular Lunch	19,469	235.97	28.9	220	240	257	300	-0.49
IEP	Non-IEP	43,834	228.74	28.9	208	224	249	300	-0.32
	IEP	5,605	194.27	30.3	165	194	220	300	0.32

Grade 8 On-Demand Writing

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,072	218.61	30.8	204	220	238	291	-0.45
Gender	Female	24,421	226.64	27.6	206	229	245	291	-0.51
	Male	25,651	210.96	31.6	191	217	235	291	-0.31
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	2,365	213.19	30.8	192	217	235	291	-0.55
	Asian	752	229.56	36.2	206	235	255	291	-0.90
	Native Hawaiian/Pacific Islander	54	219.52	31.0	204	223	245	278	-0.29
	Black/African American	5,300	204.41	30.1	181	206	226	291	-0.37
	American Indian	53	213.79	34.2	192	217	235	291	-0.25
	White	40,289	220.67	30.2	204	226	238	291	-0.46
	Other	1,254	216.05	30.8	192	220	238	291	-0.41
	Missing	5	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,950	218.64	30.8	204	220	238	291	-0.45
	Migrant	122	205.86	29.5	181	206	226	288	-0.13
LEP	Non-LEP	49,126	219.14	30.5	204	220	238	291	-0.44
	LEP	946	190.97	32.4	171	192	206	278	-0.57
Economic Disadvantage	Free Lunch	26,468	210.42	30.4	191	217	229	291	-0.42
	Reduced-Price Lunch	2,892	219.16	29.0	204	220	238	291	-0.42
	Regular Lunch	20,712	228.99	28.3	206	229	249	291	-0.51
IEP	Non-IEP	45,111	222.25	28.6	204	226	238	291	-0.42
	IEP	4,961	185.45	30.4	154	181	206	288	0.15

Grade 10 On-Demand Writing

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	48,380	220.75	33.4	201	226	249	295	-0.51
Gender	Female	23,579	228.20	30.9	217	227	249	295	-0.60
	Male	24,801	213.66	34.2	185	217	235	295	-0.40
	Missing	--	--	--	--	--	--	--	--

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
Ethnicity	Hispanic	1,985	213.18	35.0	185	217	235	295	-0.54
	Asian	658	229.02	37.4	217	235	249	295	-0.68
	Native Hawaiian/Pacific Islander	35	209.23	36.1	184	218	235	272	-0.93
	Black/African American	5,180	205.46	34.5	184	202	227	295	-0.55
	American Indian	54	214.70	30.3	201	218	227	272	-1.23
	White	39,408	223.08	32.5	201	226	249	295	-0.49
	Other	1,056	218.69	32.6	201	218	236	295	-0.46
	Missing	4	--	--	--	--	--	--	--
Migrant	Non-Migrant	48,287	220.78	33.4	201	226	249	295	-0.51
	Migrant	93	206.85	37.6	175	202	236	272	-0.03
LEP	Non-LEP	47,700	221.37	33.0	201	226	249	295	-0.51
	LEP	680	176.98	31.1	151	175	201	272	0.16
Economic Disadvantage	Free Lunch	23,692	210.41	33.0	184	217	235	295	-0.44
	Reduced-Price Lunch	2,797	220.87	31.2	201	226	236	295	-0.61
	Regular Lunch	21,891	231.93	30.4	217	235	249	295	-0.62
IEP	Non-IEP	44,022	224.48	31.4	201	226	249	295	-0.56
	IEP	4,358	183.05	29.8	166	176	201	281	0.19

Grade 11 On-Demand Writing

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	44,870	237.10	32.4	214	236	259	300	-0.62
Gender	Female	22,444	243.13	30.0	227	244	259	300	-0.72
	Male	22,426	231.06	33.5	214	235	258	300	-0.49
	Missing	--	--	--	--	--	--	--	--
Ethnicity	Hispanic	1,679	231.16	33.8	214	236	258	300	-0.71
	Asian	602	247.53	35.7	227	258	273	300	-0.63
	Native Hawaiian/Pacific Islander	42	238.60	34.4	213	240	259	300	-0.22
	Black/African American	4,786	221.70	33.5	200	227	244	300	-0.64
	American Indian	64	230.41	37.9	207	236	259	300	-0.58
	White	36,793	239.27	31.5	214	244	259	300	-0.61
	Other	900	234.74	32.2	214	236	259	300	-0.70
	Missing	4	--	--	--	--	--	--	--
Migrant	Non-Migrant	44,815	237.12	32.4	214	236	259	300	-0.62
	Migrant	55	221.62	35.3	200	214	244	290	-0.14
LEP	Non-LEP	44,382	237.51	32.2	214	236	259	300	-0.63
	LEP	488	199.35	28.9	182	200	214	282	-0.06
Economic Disadvantage	Free Lunch	20,414	227.28	32.3	213	227	244	300	-0.57
	Reduced-Price Lunch	2,568	236.30	29.2	214	236	259	300	-0.46
	Regular Lunch	21,888	246.35	30.0	227	244	272	300	-0.74
IEP	Non-IEP	41,282	240.26	30.6	226	244	259	300	-0.68
	IEP	3,588	200.71	29.6	182	200	214	300	0.06

Appendix L. NPR Frequency Distributions⁸

(SAT10 National Percentile Ranks)

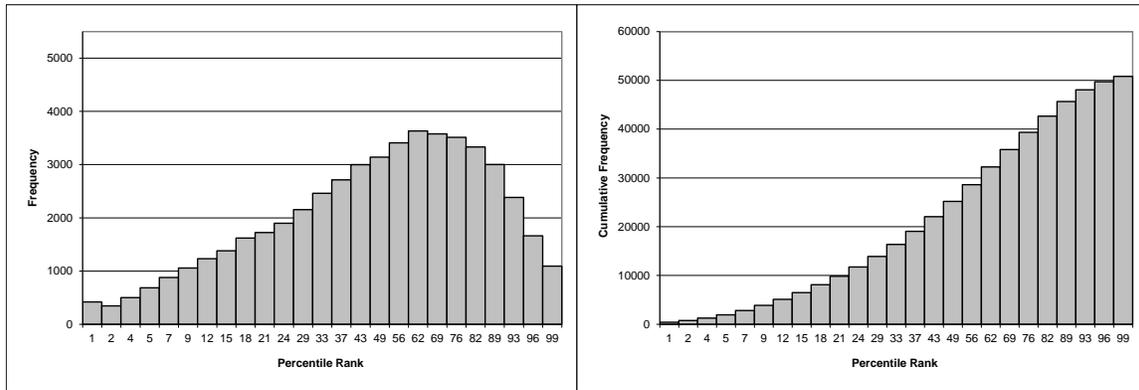


Figure 1. Reading Grade 3 NPR Frequency and Cumulative Frequency Distributions

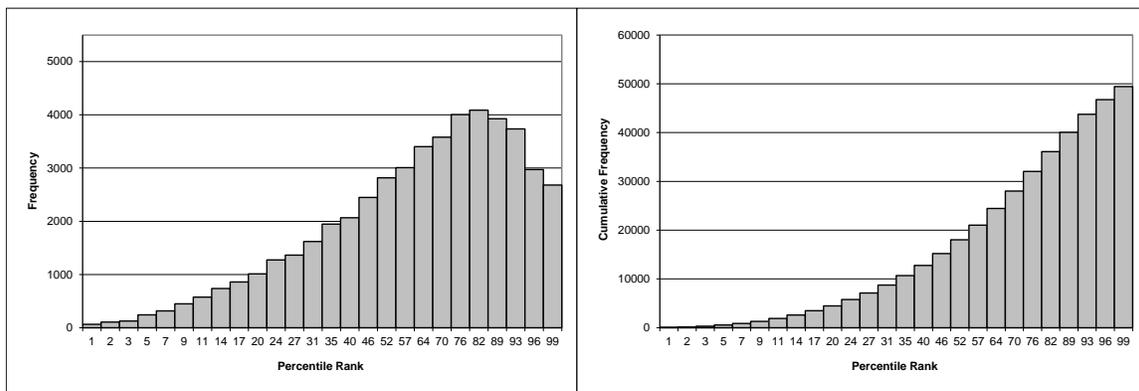


Figure 2. Reading Grade 4 NPR Frequency and Cumulative Frequency Distributions

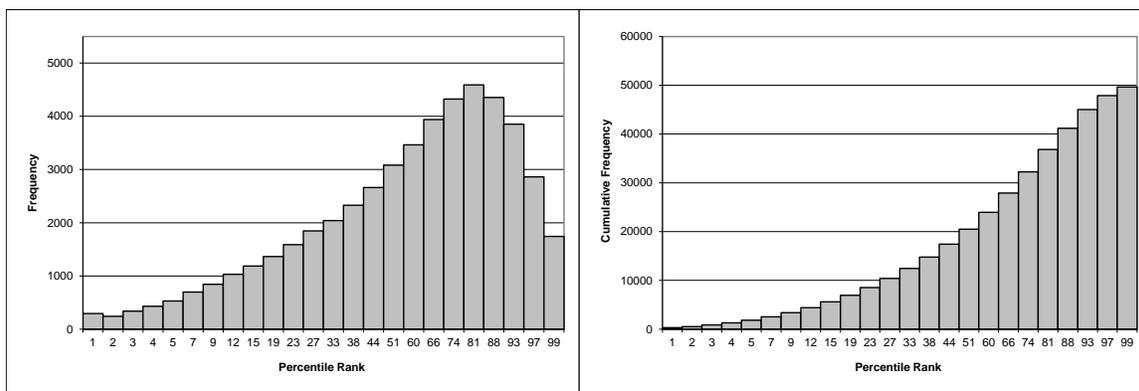


Figure 3. Reading Grade 5 NPR Frequency and Cumulative Frequency Distributions

⁸ Alternate K-PREP students are not included.

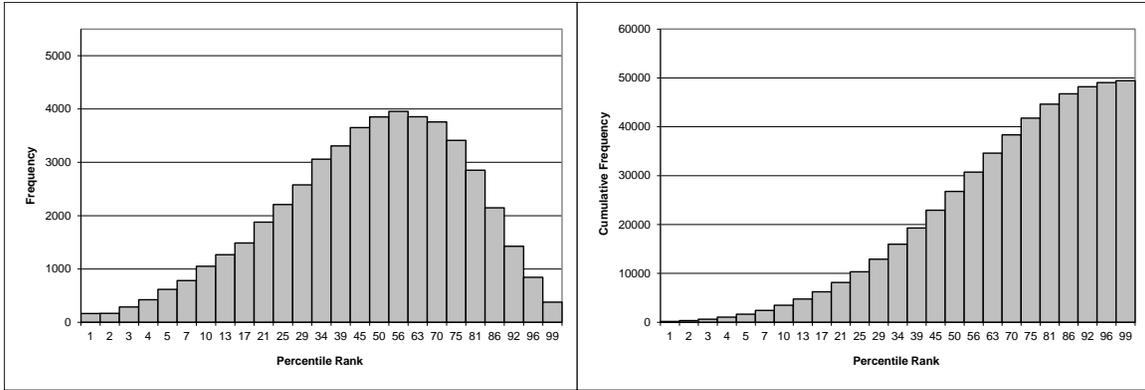


Figure 4. Reading Grade 6 NPR Frequency and Cumulative Frequency Distributions

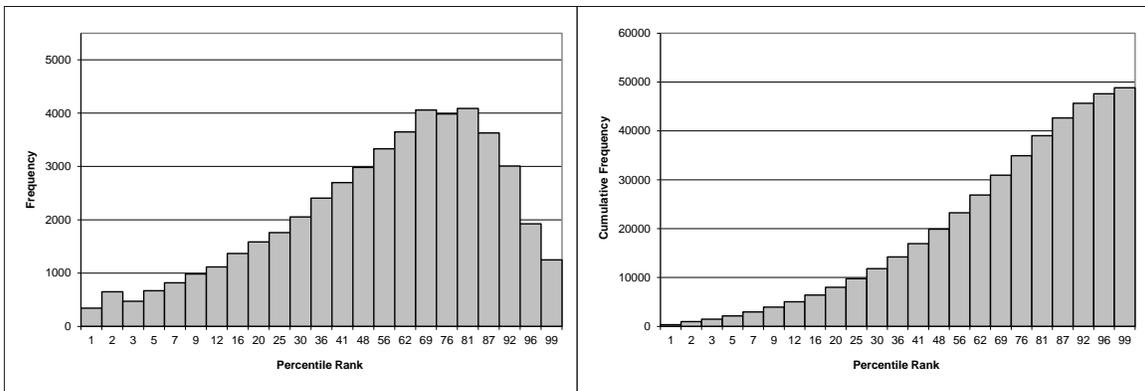


Figure 5. Reading Grade 7 NPR Frequency and Cumulative Frequency Distributions

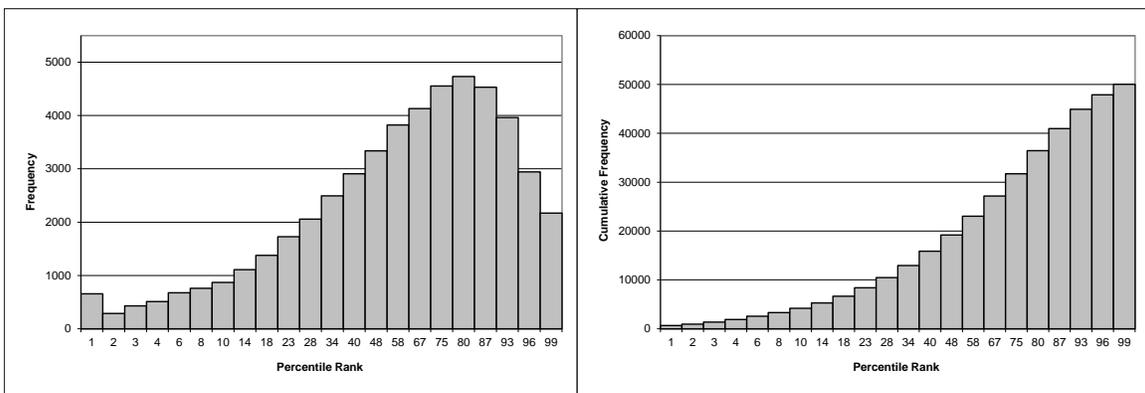


Figure 6. Reading Grade 8 NPR Frequency and Cumulative Frequency Distributions

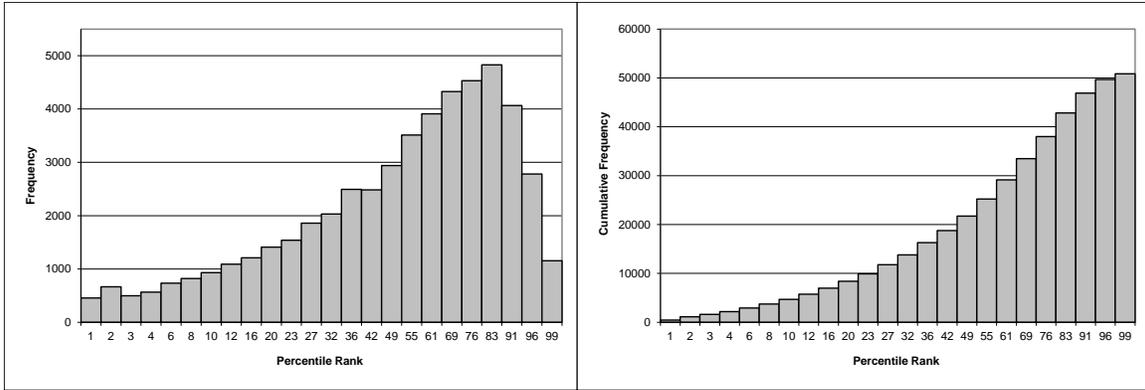


Figure 7. Mathematics Grade 3 NPR Frequency and Cumulative Frequency Distributions

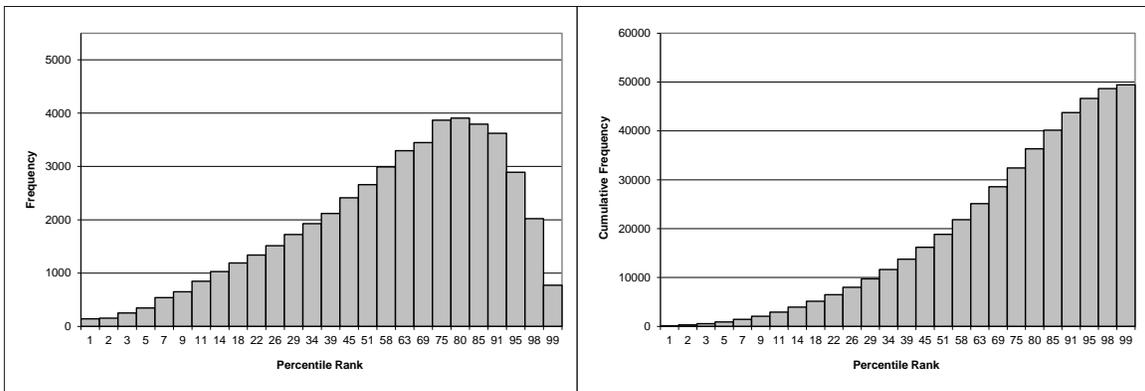


Figure 8. Mathematics Grade 4 NPR Frequency and Cumulative Frequency Distributions

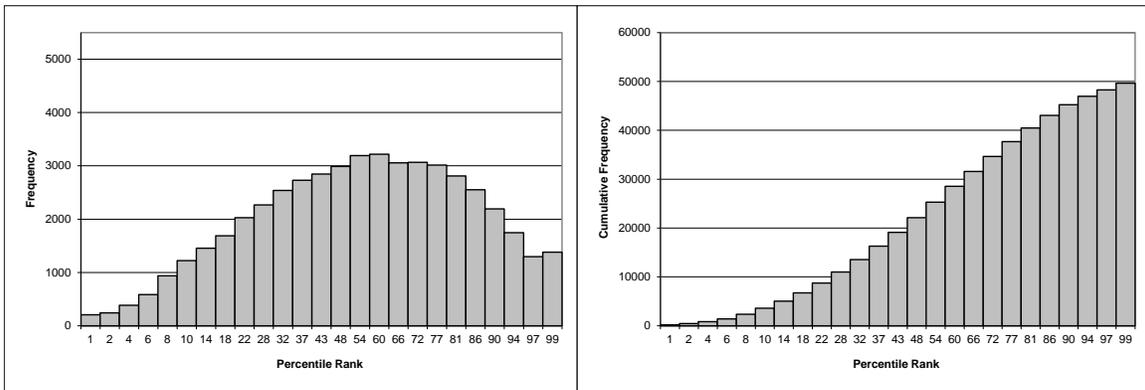


Figure 9. Mathematics Grade 5 NPR Frequency and Cumulative Frequency Distributions

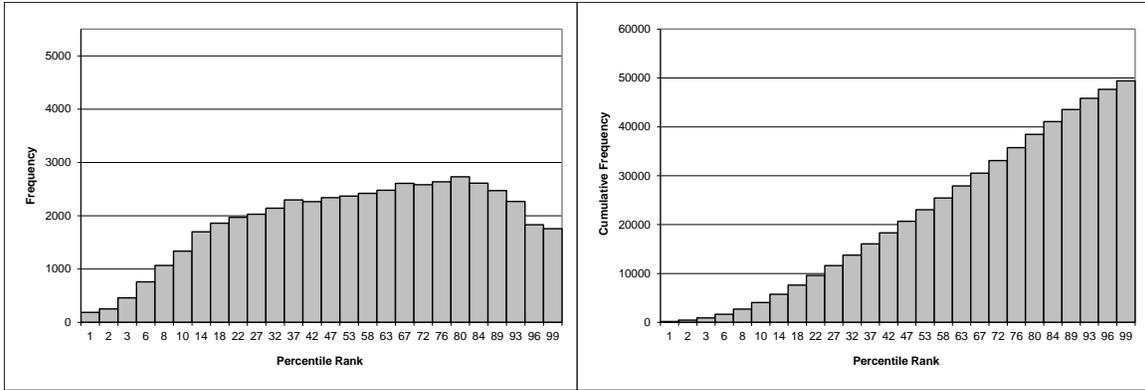


Figure 10. Mathematics Grade 6 NPR Frequency and Cumulative Frequency Distributions

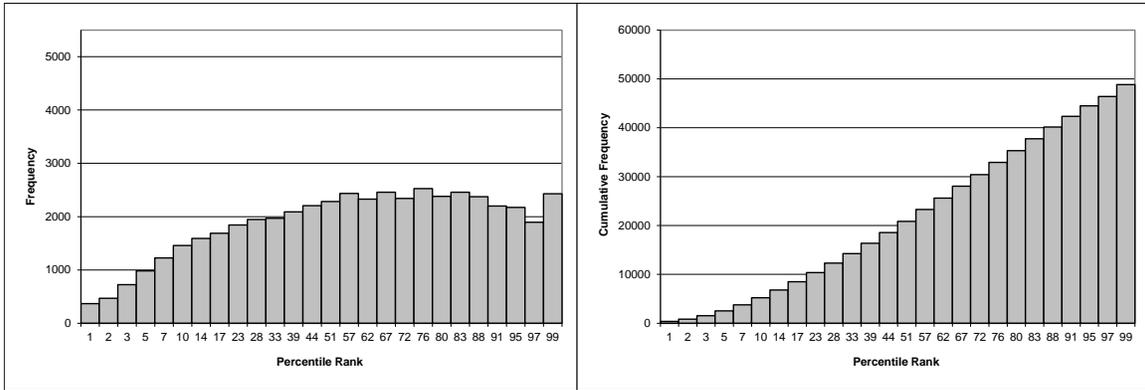


Figure 11. Mathematics Grade 7 NPR Frequency and Cumulative Frequency Distributions

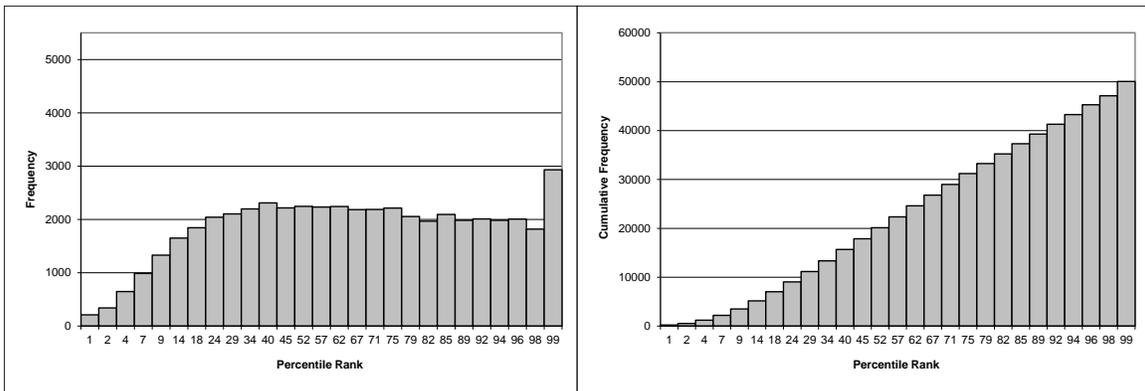


Figure 12. Mathematics Grade 8 NPR Frequency and Cumulative Frequency Distributions

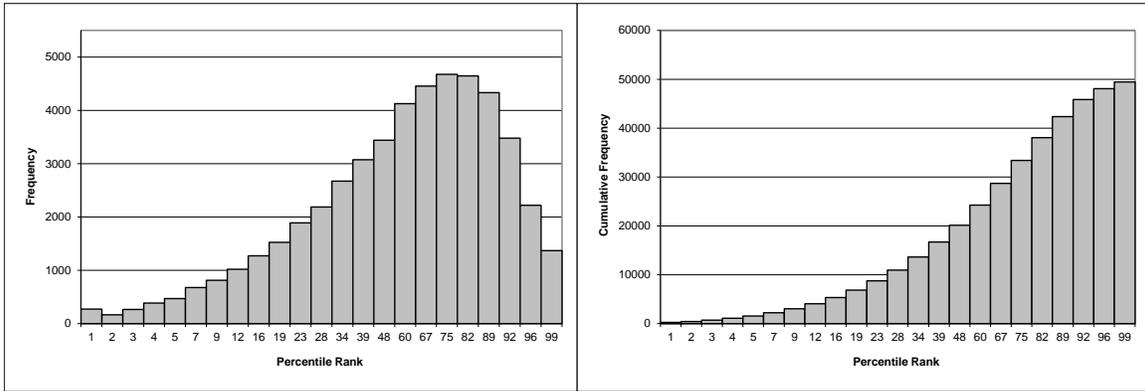


Figure 13. Science Grade 4 NPR Frequency and Cumulative Frequency Distributions

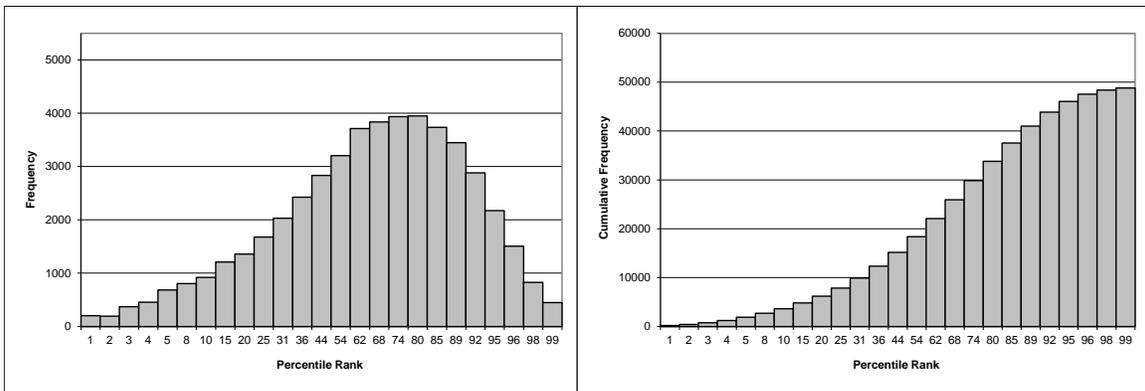


Figure 14. Science Grade 7 NPR Frequency and Cumulative Frequency Distributions

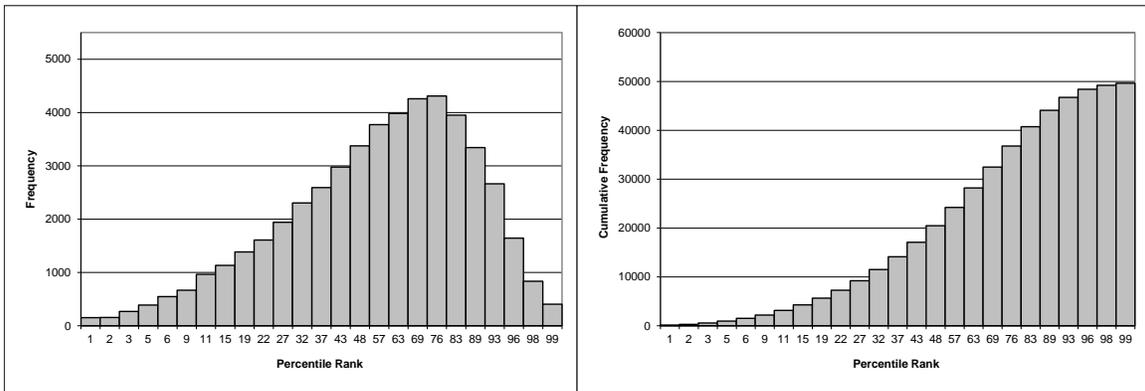


Figure 15. Social Studies Grade 5 NPR Frequency and Cumulative Frequency Distributions

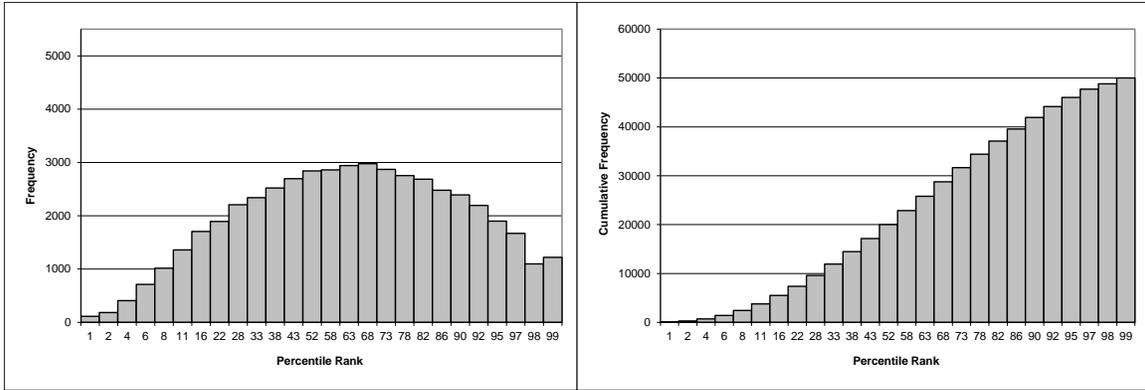


Figure 16. Social Studies Grade 8 NPR Frequency and Cumulative Frequency Distributions

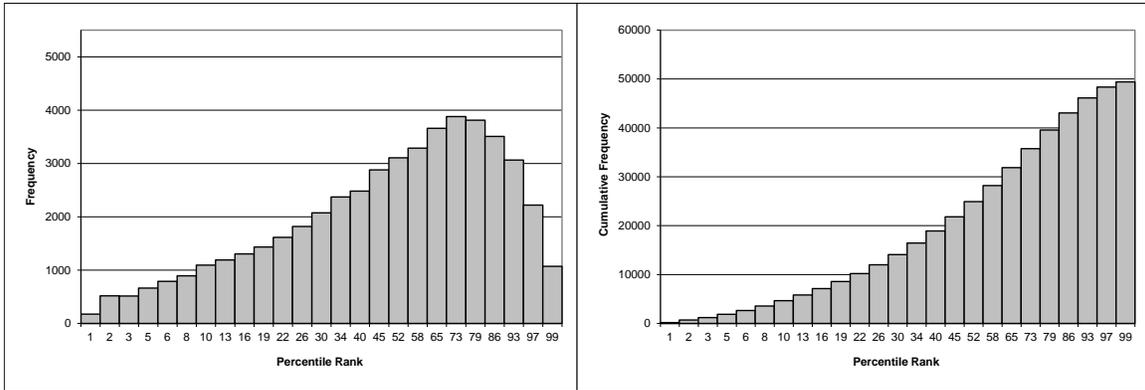


Figure 17. Language Mechanics Grade 4 NPR Frequency and Cumulative Frequency Distributions

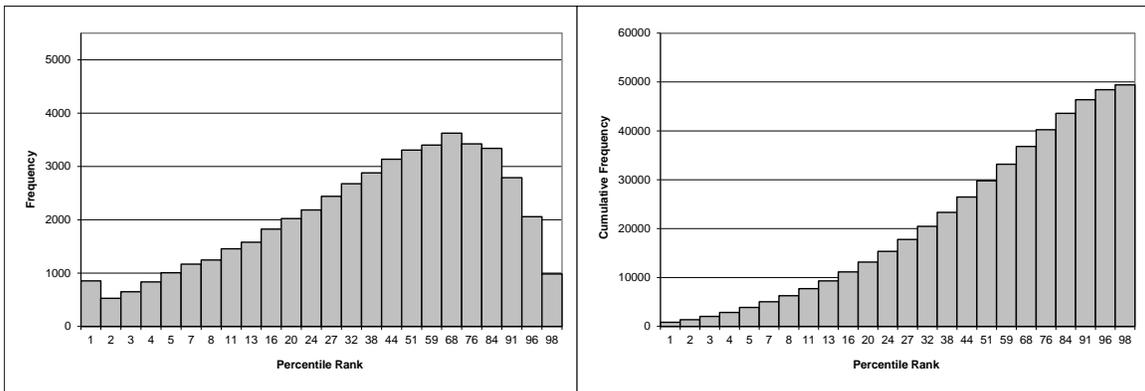


Figure 18. Language Mechanics Grade 6 NPR Frequency and Cumulative Frequency Distributions

Appendix M. Performance Level Rates⁹

Grade 3 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	51,417	21.3%	24.4%	36%	18.3%
Gender	Female	24,889	18.4%	24.1%	37.6%	20%
	Male	26,528	24%	24.8%	34.5%	16.7%
Ethnicity	Hispanic	3,368	28.7%	30.5%	30.4%	10.4%
	Asian	803	13.7%	18.6%	35.4%	32.4%
	Native Hawaiian/Pacific Islander	45	26.7%	31.1%	35.6%	6.7%
	Black/African American	5,138	40.7%	26.7%	26.6%	5.9%
	American Indian	61	24.6%	24.6%	31.1%	19.7%
	White	39,497	18.2%	23.4%	37.8%	20.6%
	Other	1,932	22.9%	26.2%	35.6%	15.3%
	Missing	573	16.8%	40.8%	34.6%	7.9%
Migrant	Non-Migrant	51,260	21.2%	24.4%	36%	18.3%
	Migrant	157	29.9%	35%	28.7%	6.4%
LEP	Non-LEP	49,067	20.5%	24%	36.5%	19%
	LEP	2,350	36.4%	34.6%	25.1%	4%
Economic Disadvantage	Free Lunch	29,704	28.5%	28%	32.8%	10.7%
	Reduced-Price Lunch	2,777	17.8%	24.7%	40.6%	17%
	Regular Lunch	18,936	10.3%	18.9%	40.4%	30.4%
IEP	Non-IEP	44,506	18.2%	24.3%	37.9%	19.6%
	IEP	6,911	40.9%	25.5%	24.1%	9.5%

Grade 4 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,962	18.8%	29%	37.8%	14.4%
Gender	Female	24,374	17.1%	28.3%	38.6%	16.1%
	Male	25,588	20.4%	29.7%	37.1%	12.8%
Ethnicity	Hispanic	2,987	27.3%	34.2%	31.5%	7%
	Asian	805	14.4%	21.4%	39.1%	25.1%
	Native Hawaiian/Pacific Islander	53	22.6%	30.2%	28.3%	18.9%
	Black/African American	5,000	36.4%	32.8%	25.3%	5.5%
	American Indian	56	16.1%	32.1%	37.5%	14.3%
	White	38,805	15.8%	28%	40%	16.2%
	Other	1,742	22%	31.3%	36.9%	9.8%
	Missing	514	18.1%	44.2%	31.3%	6.4%
Migrant	Non-Migrant	49,823	18.8%	29%	37.8%	14.5%
	Migrant	139	30.9%	39.6%	28.1%	1.4%

⁹ Alternate K-PREP students are included.

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
LEP	Non-LEP	48,504	18%	28.7%	38.5%	14.8%
	LEP	1,458	46.6%	37.4%	14.5%	1.5%
Economic Disadvantage	Free Lunch	27,992	25.9%	33.3%	33.1%	7.6%
	Reduced-Price Lunch	2,811	16.5%	29.4%	40%	14.1%
	Regular Lunch	19,159	8.8%	22.6%	44.3%	24.4%
IEP	Non-IEP	43,496	15.8%	28.8%	39.8%	15.6%
	IEP	6,466	39%	30%	24.4%	6.6%

Grade 5 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	50,194	18.7%	25.3%	38.1%	17.8%
Gender	Female	24,560	15.8%	24.3%	40.5%	19.5%
	Male	25,634	21.5%	26.4%	35.9%	16.2%
Ethnicity	Hispanic	2,729	24.6%	30.6%	35.1%	9.7%
	Asian	840	13.3%	16.5%	36.7%	33.5%
	Native Hawaiian/Pacific Islander	45	20%	17.8%	46.7%	15.6%
	Black/African American	5,029	35.9%	29.2%	28.7%	6.2%
	American Indian	59	30.5%	15.3%	37.3%	16.9%
	White	39,473	16.1%	24.5%	39.6%	19.8%
	Other	1,474	20.4%	24.9%	38.8%	15.9%
	Missing	545	18.9%	38.2%	34.1%	8.8%
Migrant	Non-Migrant	50,026	18.6%	25.3%	38.2%	17.9%
	Migrant	168	33.9%	31%	25.6%	9.5%
LEP	Non-LEP	49,188	18.1%	25.2%	38.6%	18.2%
	LEP	1,006	46.6%	34%	17.5%	1.9%
Economic Disadvantage	Free Lunch	27,431	25.9%	29.5%	34.5%	10.1%
	Reduced-Price Lunch	2,813	16.9%	26.8%	40.8%	15.5%
	Regular Lunch	19,950	9%	19.4%	42.8%	28.8%
IEP	Non-IEP	44,224	15.5%	24.9%	40.3%	19.3%
	IEP	5,970	42.6%	28.5%	22.2%	6.7%

Grade 6 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,992	22%	25.1%	37.6%	15.3%
Gender	Female	24,465	18.6%	24.1%	39.3%	17.9%
	Male	25,527	25.2%	26.1%	35.9%	12.8%
Ethnicity	Hispanic	2,652	29.6%	29.3%	32.2%	8.9%
	Asian	815	12.1%	17.8%	41.3%	28.7%
	Native Hawaiian/Pacific Islander	43	30.2%	18.6%	41.9%	9.3%
	Black/African American	5,216	41.9%	28.5%	24.1%	5.5%
	American Indian	58	22.4%	17.2%	41.4%	19%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	White	39,267	18.9%	24.3%	39.8%	17%
	Other	1,382	24.9%	27.4%	34.8%	12.9%
	Missing	559	18.8%	39.4%	34.2%	7.7%
Migrant	Non-Migrant	49,877	21.9%	25.1%	37.6%	15.3%
	Migrant	115	31.3%	32.2%	31.3%	5.2%
LEP	Non-LEP	49,174	21.2%	25.2%	38.1%	15.5%
	LEP	818	67.2%	22.7%	9%	1%
Economic Disadvantage	Free Lunch	27,107	30.5%	29.1%	32.4%	8%
	Reduced-Price Lunch	2,863	19.6%	27.5%	39.4%	13.5%
	Regular Lunch	20,022	10.8%	19.4%	44.3%	25.5%
IEP	Non-IEP	44,387	18%	25.1%	40.1%	16.8%
	IEP	5,605	53.1%	25.2%	18.1%	3.6%

Grade 7 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,456	19.7%	25.8%	37.5%	17.1%
Gender	Female	23,914	15.3%	25%	40%	19.8%
	Male	25,542	23.8%	26.6%	35.1%	14.5%
Ethnicity	Hispanic	2,515	26.4%	29.7%	34.3%	9.5%
	Asian	701	12%	16.8%	38.9%	32.2%
	Native Hawaiian/Pacific Islander	37	21.6%	21.6%	43.2%	13.5%
	Black/African American	5,297	39.2%	29.3%	25.7%	5.8%
	American Indian	58	25.9%	27.6%	34.5%	12.1%
	White	38,910	16.5%	24.9%	39.4%	19.1%
	Other	1,332	22.9%	28.8%	36.2%	12.2%
	Missing	606	20.8%	39.1%	29%	11.1%
Migrant	Non-Migrant	49,331	19.6%	25.8%	37.5%	17.1%
	Migrant	125	28.8%	30.4%	37.6%	3.2%
LEP	Non-LEP	48,581	18.9%	25.8%	38%	17.4%
	LEP	875	62.5%	26.3%	10.4%	0.8%
Economic Disadvantage	Free Lunch	26,580	27.8%	29.9%	33.1%	9.2%
	Reduced-Price Lunch	2,757	16.1%	26.6%	41.2%	16.1%
	Regular Lunch	20,119	9.3%	20.3%	42.8%	27.5%
IEP	Non-IEP	44,498	15.7%	25.8%	40%	18.6%
	IEP	4,958	55.2%	25.9%	15.3%	3.6%

Grade 8 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	50,737	21.5%	24.4%	36.5%	17.6%
Gender	Female	24,654	15.8%	23.3%	40%	20.9%
	Male	26,083	26.8%	25.5%	33.2%	14.5%
Ethnicity	Hispanic	2,365	27.1%	26.2%	34.8%	11.9%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	Asian	752	20.7%	11.6%	29.7%	38%
	Native Hawaiian/Pacific Islander	54	29.6%	24.1%	31.5%	14.8%
	Black/African American	5,300	38.7%	28%	26.8%	6.5%
	American Indian	53	22.6%	24.5%	34%	18.9%
	White	40,289	18.8%	23.6%	38.3%	19.3%
	Other	1,254	24%	26.4%	35.2%	14.4%
	Missing	670	18.7%	50.3%	23.1%	7.9%
Migrant	Non-Migrant	50,615	21.4%	24.4%	36.5%	17.7%
	Migrant	122	33.6%	30.3%	31.1%	4.9%
LEP	Non-LEP	49,791	20.6%	24.5%	37%	17.9%
	LEP	946	66.3%	22%	10.7%	1.1%
Economic Disadvantage	Free Lunch	26,468	29.9%	27.9%	32.5%	9.7%
	Reduced-Price Lunch	2,892	20.1%	25.2%	38.3%	16.5%
	Regular Lunch	21,377	11.1%	20%	41.2%	27.6%
IEP	Non-IEP	45,776	17.1%	24.7%	39%	19.2%
	IEP	4,961	61.3%	22.1%	13.3%	3.4%

Grade 3 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	51,417	19.5%	33%	34.7%	12.8%
Gender	Female	24,889	18.2%	34.2%	35.2%	12.4%
	Male	26,528	20.6%	31.8%	34.3%	13.3%
Ethnicity	Hispanic	3,368	26.2%	36.8%	30%	7%
	Asian	803	8.6%	21.3%	35.7%	34.4%
	Native Hawaiian/Pacific Islander	45	20%	35.6%	37.8%	6.7%
	Black/African American	5,138	32.9%	37.8%	23.9%	5.4%
	American Indian	61	14.8%	32.8%	37.7%	14.8%
	White	39,497	17.1%	32.1%	36.7%	14.1%
	Other	1,932	22.3%	33.5%	33.3%	10.9%
	Missing	573	28.3%	43.5%	23.4%	4.9%
Migrant	Non-Migrant	51,260	19.4%	32.9%	34.8%	12.9%
	Migrant	157	26.8%	43.3%	23.6%	6.4%
LEP	Non-LEP	49,067	18.9%	32.6%	35.2%	13.2%
	LEP	2,350	30.5%	40.4%	24.2%	4.9%
Economic Disadvantage	Free Lunch	29,704	26.2%	36.9%	29.7%	7.3%
	Reduced-Price Lunch	2,777	16.3%	33.2%	38.7%	11.8%
	Regular Lunch	18,936	9.4%	26.8%	42.1%	21.7%
IEP	Non-IEP	44,506	15.9%	33.1%	37%	14%
	IEP	6,911	42.4%	31.9%	20%	5.6%

Grade 4 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,962	20.4%	31%	33%	15.6%
Gender	Female	24,374	19.3%	31.4%	34%	15.2%
	Male	25,588	21.4%	30.6%	32%	16%
Ethnicity	Hispanic	2,987	26.2%	36.3%	28.7%	8.8%
	Asian	805	9.7%	18.5%	31.4%	40.4%
	Native Hawaiian/Pacific Islander	53	20.8%	24.5%	39.6%	15.1%
	Black/African American	5,000	35.3%	34.3%	24.4%	6%
	American Indian	56	19.6%	28.6%	33.9%	17.9%
	White	38,805	18.1%	30%	34.7%	17.2%
	Other	1,742	24%	33.9%	29.9%	12.3%
	Missing	514	18.7%	54.9%	23.7%	2.7%
Migrant	Non-Migrant	49,823	20.4%	31%	33%	15.6%
	Migrant	139	26.6%	41.7%	25.9%	5.8%
LEP	Non-LEP	48,504	19.7%	30.8%	33.5%	16%
	LEP	1,458	42.1%	38.5%	15.6%	3.8%
Economic Disadvantage	Free Lunch	27,992	27.6%	35%	28.9%	8.6%
	Reduced-Price Lunch	2,811	18.3%	31.8%	35.6%	14.2%
	Regular Lunch	19,159	10.1%	25.1%	38.7%	26.1%
IEP	Non-IEP	43,496	16.7%	31.1%	35.2%	16.9%
	IEP	6,466	45.2%	30.2%	17.9%	6.7%

Grade 5 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	50,194	14.5%	35.2%	30.2%	20.1%
Gender	Female	24,560	12.6%	36.3%	31.7%	19.4%
	Male	25,634	16.3%	34.1%	28.8%	20.8%
Ethnicity	Hispanic	2,729	17.2%	43.3%	28%	11.6%
	Asian	840	5.8%	19.8%	29%	45.4%
	Native Hawaiian/Pacific Islander	45	15.6%	35.6%	35.6%	13.3%
	Black/African American	5,029	25.7%	42.2%	24.3%	7.8%
	American Indian	59	16.9%	33.9%	33.9%	15.3%
	White	39,473	12.9%	33.9%	31.1%	22.1%
	Other	1,474	16.4%	35.5%	31.5%	16.7%
	Missing	545	24.2%	45%	29%	1.8%
Migrant	Non-Migrant	50,026	14.5%	35.1%	30.2%	20.2%
	Migrant	168	19%	51.2%	23.8%	6%
LEP	Non-LEP	49,188	14.2%	34.9%	30.5%	20.4%
	LEP	1,006	31.8%	48.8%	14.7%	4.7%
Economic Disadvantage	Free Lunch	27,431	20%	41.7%	26.9%	11.3%
	Reduced-Price Lunch	2,813	12.2%	36.8%	31.9%	19.1%
	Regular Lunch	19,950	7.3%	25.9%	34.5%	32.3%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
IEP	Non-IEP	44,224	11.3%	34.6%	32.2%	21.8%
	IEP	5,970	38.2%	39%	15.6%	7.3%

Grade 6 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,992	16.2%	40.6%	32.4%	10.8%
Gender	Female	24,465	13.4%	39.9%	35%	11.8%
	Male	25,527	18.8%	41.4%	29.9%	9.9%
Ethnicity	Hispanic	2,652	19.1%	47.2%	27.7%	6%
	Asian	815	7.4%	19.6%	40.2%	32.8%
	Native Hawaiian/Pacific Islander	43	20.9%	39.5%	25.6%	14%
	Black/African American	5,216	32.9%	45.1%	19.1%	2.9%
	American Indian	58	10.3%	41.4%	41.4%	6.9%
	White	39,267	13.7%	39.9%	34.5%	11.9%
	Other	1,382	19.4%	44.9%	27.6%	8.2%
	Missing	559	22.5%	40.4%	30.8%	6.3%
Migrant	Non-Migrant	49,877	16.1%	40.6%	32.4%	10.8%
	Migrant	115	24.3%	43.5%	28.7%	3.5%
LEP	Non-LEP	49,174	15.6%	40.6%	32.8%	10.9%
	LEP	818	46.5%	41.3%	10.1%	2.1%
Economic Disadvantage	Free Lunch	27,107	22.6%	46.8%	25.8%	4.9%
	Reduced-Price Lunch	2,863	14%	42.8%	34.1%	9%
	Regular Lunch	20,022	7.8%	32%	41.1%	19.1%
IEP	Non-IEP	44,387	12.5%	40.8%	35%	11.8%
	IEP	5,605	45.3%	39.8%	12.2%	2.7%

Grade 7 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,456	17.1%	42%	31.6%	9.4%
Gender	Female	23,914	14.7%	43.1%	33%	9.2%
	Male	25,542	19.3%	40.9%	30.3%	9.5%
Ethnicity	Hispanic	2,515	23.7%	46.3%	25.2%	4.8%
	Asian	701	7.4%	24.3%	35.5%	32.8%
	Native Hawaiian/Pacific Islander	37	10.8%	51.4%	37.8%	0%
	Black/African American	5,297	35.4%	45.6%	16.7%	2.3%
	American Indian	58	22.4%	36.2%	34.5%	6.9%
	White	38,910	14.2%	41.2%	34.1%	10.4%
	Other	1,332	20.7%	46.5%	27.1%	5.6%
	Missing	606	17.8%	48.8%	30.4%	3%
Migrant	Non-Migrant	49,331	17%	42%	31.6%	9.4%
	Migrant	125	28.8%	44.8%	24.8%	1.6%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
LEP	Non-LEP	48,581	16.5%	42%	32%	9.5%
	LEP	875	49.8%	40.9%	8%	1.3%
Economic Disadvantage	Free Lunch	26,580	24.3%	47.9%	23.7%	4%
	Reduced-Price Lunch	2,757	14.6%	44.4%	33.2%	7.8%
	Regular Lunch	20,119	7.8%	33.8%	41.8%	16.7%
IEP	Non-IEP	44,498	13.7%	42.1%	34%	10.2%
	IEP	4,958	47.3%	40.5%	9.9%	2.2%

Grade 8 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	50,737	15.1%	40.7%	33.3%	10.9%
Gender	Female	24,654	12.4%	40.3%	36.2%	11%
	Male	26,083	17.6%	41.1%	30.6%	10.8%
Ethnicity	Hispanic	2,365	17.7%	46.5%	29.3%	6.5%
	Asian	752	9%	23.4%	31.3%	36.3%
	Native Hawaiian/Pacific Islander	54	16.7%	40.7%	31.5%	11.1%
	Black/African American	5,300	30.1%	47.9%	19.4%	2.6%
	American Indian	53	20.8%	35.8%	28.3%	15.1%
	White	40,289	12.7%	39.6%	35.7%	11.9%
	Other	1,254	17.8%	44.8%	29.3%	8.1%
Migrant	Missing	670	27.6%	41.6%	23.6%	7.2%
	Non-Migrant	50,615	15.1%	40.7%	33.3%	10.9%
LEP	Migrant	122	23.8%	47.5%	22.1%	6.6%
	Non-LEP	49,791	14.6%	40.6%	33.7%	11.1%
Economic Disadvantage	LEP	946	39.3%	46.5%	12.1%	2.1%
	Free Lunch	26,468	21.6%	47.1%	26.3%	4.9%
	Reduced-Price Lunch	2,892	12%	43%	36.2%	8.8%
IEP	Regular Lunch	21,377	7.4%	32.5%	41.6%	18.5%
	Non-IEP	45,776	11.8%	40.6%	35.8%	11.8%
	IEP	4,961	45.5%	41.6%	10.7%	2.1%

Grade 5 Social Studies

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	50,194	9.1%	30.2%	46.7%	13.9%
Gender	Female	24,560	8.2%	31.9%	47%	12.9%
	Male	25,634	10%	28.6%	46.5%	14.9%
Ethnicity	Hispanic	2,729	11%	38.5%	43.6%	6.9%
	Asian	840	7%	19.5%	45.6%	27.9%
	Native Hawaiian/Pacific Islander	45	6.7%	40%	42.2%	11.1%
	Black/African American	5,029	20.5%	41.8%	33.2%	4.5%
	American Indian	59	10.2%	30.5%	42.4%	16.9%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	White	39,473	7.4%	28.1%	48.8%	15.6%
	Other	1,474	9.8%	32%	47%	11.1%
	Missing	545	17.8%	44.2%	34.5%	3.5%
Migrant	Non-Migrant	50,026	9.1%	30.2%	46.8%	14%
	Migrant	168	16.7%	41.7%	33.3%	8.3%
LEP	Non-LEP	49,188	8.8%	29.8%	47.2%	14.2%
	LEP	1,006	26.3%	49.5%	22.1%	2.1%
Economic Disadvantage	Free Lunch	27,431	13%	37.6%	42%	7.3%
	Reduced-Price Lunch	2,813	8%	31%	49%	12.1%
	Regular Lunch	19,950	3.9%	19.9%	52.8%	23.3%
IEP	Non-IEP	44,224	6.4%	28.9%	49.5%	15.1%
	IEP	5,970	28.9%	39.8%	26.2%	5.1%

Grade 8 Social Studies

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	50,737	11.1%	30.3%	44.2%	14.4%
Gender	Female	24,654	8.7%	31.8%	45.8%	13.7%
	Male	26,083	13.4%	28.8%	42.6%	15.2%
Ethnicity	Hispanic	2,365	14.5%	36.4%	39.5%	9.7%
	Asian	752	10.9%	18.8%	36.6%	33.8%
	Native Hawaiian/Pacific Islander	54	13%	37%	35.2%	14.8%
	Black/African American	5,300	22.4%	41.8%	31%	4.7%
	American Indian	53	13.2%	28.3%	41.5%	17%
	White	40,289	9.1%	28.4%	46.7%	15.8%
	Other	1,254	13.6%	33.3%	40.7%	12.4%
	Missing	670	27.3%	36.1%	26.7%	9.9%
Migrant	Non-Migrant	50,615	11.1%	30.3%	44.2%	14.4%
	Migrant	122	20.5%	41%	32%	6.6%
LEP	Non-LEP	49,791	10.6%	30%	44.8%	14.7%
	LEP	946	40.6%	45%	13.5%	0.8%
Economic Disadvantage	Free Lunch	26,468	16.3%	37.8%	38.5%	7.5%
	Reduced-Price Lunch	2,892	8.6%	30.8%	46.2%	14.5%
	Regular Lunch	21,377	5.1%	21%	50.9%	23%
IEP	Non-IEP	45,776	7.9%	29.4%	47%	15.7%
	IEP	4,961	40.4%	39%	17.7%	2.9%

Grade 4 Language Mechanics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,962	20.6%	23.8%	28.2%	27.4%
Gender	Female	24,374	16%	21.8%	29.3%	32.9%
	Male	25,588	25%	25.6%	27.2%	22.2%
Ethnicity	Hispanic	2,987	27.5%	28.5%	26.6%	17.4%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	Asian	805	14.2%	13.4%	26.7%	45.7%
	Native Hawaiian/Pacific Islander	53	9.4%	34%	30.2%	26.4%
	Black/African American	5,000	37%	26.4%	22.3%	14.3%
	American Indian	56	25%	17.9%	37.5%	19.6%
	White	38,805	18.1%	22.9%	29.1%	29.9%
	Other	1,742	23.3%	25.4%	27%	24.3%
	Missing	514	16.3%	48.8%	29.6%	5.3%
Migrant	Non-Migrant	49,823	20.6%	23.8%	28.2%	27.5%
	Migrant	139	35.3%	25.9%	26.6%	12.2%
LEP	Non-LEP	48,504	19.7%	23.6%	28.6%	28.1%
	LEP	1,458	50.5%	29.6%	14.7%	5.1%
Economic Disadvantage	Free Lunch	27,992	28.6%	27.3%	26.1%	18.1%
	Reduced-Price Lunch	2,811	16.8%	25.1%	30.8%	27.4%
	Regular Lunch	19,159	9.6%	18.4%	30.9%	41.1%
IEP	Non-IEP	43,496	16.1%	23.6%	30.1%	30.2%
	IEP	6,466	51.1%	24.6%	15.7%	8.6%

Grade 6 Language Mechanics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,992	31%	22.8%	20.9%	25.3%
Gender	Female	24,465	23.2%	22.7%	22.9%	31.2%
	Male	25,527	38.5%	22.8%	19%	19.7%
Ethnicity	Hispanic	2,652	37.9%	25.5%	18.2%	18.4%
	Asian	815	17.5%	16.1%	23.2%	43.2%
	Native Hawaiian/Pacific Islander	43	23.3%	14%	23.3%	39.5%
	Black/African American	5,216	50.1%	23%	14.6%	12.3%
	American Indian	58	24.1%	12.1%	29.3%	34.5%
	White	39,267	28.3%	22.4%	21.8%	27.5%
	Other	1,382	33.1%	23.9%	21.3%	21.6%
	Missing	559	29.7%	43.5%	22.7%	4.1%
Migrant	Non-Migrant	49,877	31%	22.7%	20.9%	25.3%
	Migrant	115	40.9%	27%	20%	12.2%
LEP	Non-LEP	49,174	30.3%	22.9%	21.1%	25.7%
	LEP	818	73%	15.5%	7.1%	4.4%
Economic Disadvantage	Free Lunch	27,107	41.6%	24.3%	18.5%	15.6%
	Reduced-Price Lunch	2,863	29%	25.4%	22.1%	23.5%
	Regular Lunch	20,022	16.9%	20.3%	24%	38.7%
IEP	Non-IEP	44,387	25.9%	23.6%	22.6%	27.9%
	IEP	5,605	71.7%	16.3%	7.2%	4.8%

Grade 5 On-Demand Writing

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	50,194	12.8%	43.4%	40%	3.8%
Gender	Female	24,560	7.3%	38.1%	48.9%	5.7%
	Male	25,634	18.1%	48.4%	31.5%	2%
Ethnicity	Hispanic	2,729	16.2%	49.1%	32.5%	2.2%
	Asian	840	8.9%	29.2%	52%	9.9%
	Native Hawaiian/Pacific Islander	45	11.1%	46.7%	37.8%	4.4%
	Black/African American	5,029	20.9%	50.5%	27.1%	1.6%
	American Indian	59	20.3%	35.6%	42.4%	1.7%
	White	39,473	11.6%	42.3%	42.1%	4%
	Other	1,474	12.3%	44.9%	39.1%	3.7%
	Missing	545	18%	42.6%	33.6%	5.9%
Migrant	Non-Migrant	50,026	12.8%	43.3%	40.1%	3.8%
	Migrant	168	19%	48.8%	30.4%	1.8%
LEP	Non-LEP	49,188	12.4%	43.3%	40.5%	3.9%
	LEP	1,006	35.4%	48.4%	15.7%	0.5%
Economic Disadvantage	Free Lunch	27,431	17.5%	49%	31.7%	1.8%
	Reduced-Price Lunch	2,813	11.8%	43.8%	41.1%	3.3%
	Regular Lunch	19,950	6.5%	35.6%	51.3%	6.6%
IEP	Non-IEP	44,224	8.7%	43.6%	43.5%	4.1%
	IEP	5,970	43%	41.4%	14.6%	1.1%

Grade 6 On-Demand Writing

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,992	13.4%	42.5%	38.9%	5.2%
Gender	Female	24,465	7.5%	37.5%	47.5%	7.5%
	Male	25,527	19.1%	47.2%	30.7%	3%
Ethnicity	Hispanic	2,652	15.7%	48.3%	32.4%	3.6%
	Asian	815	8%	29.2%	50.4%	12.4%
	Native Hawaiian/Pacific Islander	43	18.6%	25.6%	51.2%	4.7%
	Black/African American	5,216	22.7%	51.2%	24.3%	1.7%
	American Indian	58	15.5%	32.8%	46.6%	5.2%
	White	39,267	11.8%	41.1%	41.3%	5.7%
	Other	1,382	14%	44.3%	38.5%	3.2%
	Missing	559	29.3%	43.8%	23.1%	3.8%
Migrant	Non-Migrant	49,877	13.4%	42.5%	38.9%	5.2%
	Migrant	115	14.8%	50.4%	33%	1.7%
LEP	Non-LEP	49,174	12.9%	42.4%	39.4%	5.3%
	LEP	818	42.1%	44.6%	12.6%	0.7%
Economic Disadvantage	Free Lunch	27,107	18%	48.6%	30.9%	2.5%
	Reduced-Price Lunch	2,863	12.3%	44.3%	39.5%	3.8%
	Regular Lunch	20,022	7.2%	33.9%	49.7%	9.2%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
IEP	Non-IEP	44,387	9.1%	42.8%	42.4%	5.8%
	IEP	5,605	47.3%	40.3%	11.6%	0.8%

Grade 8 On-Demand Writing

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	50,737	15.1%	50.6%	28%	6.3%
Gender	Female	24,654	8%	48.3%	35.4%	8.3%
	Male	26,083	21.9%	52.7%	21%	4.4%
Ethnicity	Hispanic	2,365	17.3%	56.2%	22.7%	3.8%
	Asian	752	11.8%	34.8%	35.6%	17.7%
	Native Hawaiian/Pacific Islander	54	9.3%	57.4%	27.8%	5.6%
	Black/African American	5,300	26.3%	57.1%	15.1%	1.5%
	American Indian	53	20.8%	52.8%	22.6%	3.8%
	White	40,289	13.4%	49.8%	29.9%	6.9%
	Other	1,254	17.3%	51.9%	25.6%	5.2%
	Missing	670	25.4%	39.4%	28.2%	7%
Migrant	Non-Migrant	50,615	15.1%	50.5%	28%	6.3%
	Migrant	122	25.4%	54.9%	17.2%	2.5%
LEP	Non-LEP	49,791	14.7%	50.5%	28.4%	6.4%
	LEP	946	38.8%	54.3%	6.3%	0.5%
Economic Disadvantage	Free Lunch	26,468	21.1%	55.4%	20.8%	2.8%
	Reduced-Price Lunch	2,892	12.8%	53%	28.7%	5.5%
	Regular Lunch	21,377	8.1%	44.3%	36.9%	10.7%
IEP	Non-IEP	45,776	11%	51.8%	30.4%	6.9%
	IEP	4,961	53.6%	39.5%	6.2%	0.7%

Grade 10 On-Demand Writing

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	48,932	11.3%	48.7%	33.3%	6.7%
Gender	Female	23,787	6.4%	44.8%	40%	8.8%
	Male	25,145	16%	52.5%	26.9%	4.6%
Ethnicity	Hispanic	1,985	17%	50.8%	28.2%	4%
	Asian	658	10.5%	35.7%	38.1%	15.7%
	Native Hawaiian/Pacific Islander	35	17.1%	51.4%	28.6%	2.9%
	Black/African American	5,180	21.1%	55.8%	21.2%	1.9%
	American Indian	54	11.1%	66.7%	18.5%	3.7%
	White	39,408	9.6%	47.7%	35.3%	7.3%
	Other	1,056	10.4%	54.8%	28.5%	6.3%
	Missing	556	23.9%	50%	22.3%	3.8%
Migrant	Non-Migrant	48,839	11.3%	48.8%	33.3%	6.7%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	Migrant	93	26.9%	41.9%	26.9%	4.3%
LEP	Non-LEP	48,252	10.7%	48.8%	33.7%	6.7%
	LEP	680	53.7%	41.8%	4.3%	0.3%
Economic Disadvantage	Free Lunch	23,692	16.9%	56.2%	24.1%	2.9%
	Reduced-Price Lunch	2,797	9.2%	52.6%	32.9%	5.4%
	Regular Lunch	22,443	5.8%	40.4%	43%	10.8%
IEP	Non-IEP	44,574	7.8%	49%	36%	7.3%
	IEP	4,358	47.9%	46.2%	5.5%	0.4%

Grade 11 On-Demand Writing

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	45,428	10.6%	28.2%	51.3%	9.9%
Gender	Female	22,639	6.5%	23.8%	57.7%	11.9%
	Male	22,789	14.6%	32.5%	44.9%	8%
Ethnicity	Hispanic	1,679	13.2%	32.6%	47.1%	7.1%
	Asian	602	11.5%	17.4%	47.3%	23.8%
	Native Hawaiian/Pacific Islander	42	11.9%	23.8%	50%	14.3%
	Black/African American	4,786	20.2%	37.5%	39.3%	3%
	American Indian	64	18.8%	28.1%	45.3%	7.8%
	White	36,793	9%	26.5%	53.5%	10.9%
	Other	900	10.8%	29.4%	51.7%	8.1%
	Missing	562	19.4%	51.1%	25.4%	4.1%
Migrant	Non-Migrant	45,373	10.6%	28.2%	51.3%	10%
	Migrant	55	21.8%	38.2%	34.5%	5.5%
LEP	Non-LEP	44,940	10.2%	28.1%	51.7%	10%
	LEP	488	47.5%	37.7%	14.3%	0.4%
Economic Disadvantage	Free Lunch	20,414	15.8%	35.1%	44.3%	4.8%
	Reduced-Price Lunch	2,568	8.8%	30.8%	53.3%	7%
	Regular Lunch	22,446	6%	21.5%	57.4%	15%
IEP	Non-IEP	41,840	7.5%	27.4%	54.4%	10.7%
	IEP	3,588	46.8%	37.3%	15.1%	0.8%

Appendix N. Reliability¹⁰

Overall Test

Grade 3 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	49,562	0.86	0.85	0.41	6.49
Gender	Female	24,260	0.85	0.84	0.39	6.54
	Male	25,302	0.86	0.85	0.42	6.44
Ethnicity	Hispanic	3,286	0.83	0.82	0.37	6.33
	Asian	780	0.86	0.84	0.41	6.81
	Native Hawaiian/Pacific Islander	44	0.82	0.81	-.27	6.08
	Black/African American	4,853	0.85	0.84	0.38	6.30
	American Indian	60	0.87	0.86	0.49	6.27
	White	38,665	0.85	0.84	0.40	6.52
	Other	1,871	0.85	0.84	0.39	6.43
	Missing	3	--	--	--	--
Migrant	Non-Migrant	49,409	0.86	0.85	0.41	6.49
	Migrant	153	0.80	0.78	0.26	6.20
LEP	Non-LEP	47,279	0.86	0.85	0.41	6.50
	LEP	2,283	0.79	0.78	0.27	6.20
Economic Disadvantage	Free Lunch	28,696	0.85	0.83	0.37	6.36
	Reduced-Price Lunch	2,724	0.83	0.82	0.35	6.38
	Regular Lunch	18,142	0.84	0.82	0.37	6.69
IEP	Non-IEP	42,997	0.85	0.84	0.39	6.51
	IEP	6,565	0.87	0.86	0.44	6.49

Grade 4 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	47,840	0.84	0.81	0.57	6.23
Gender	Female	23,680	0.84	0.81	0.57	6.25
	Male	24,160	0.84	0.81	0.57	6.20
Ethnicity	Hispanic	2,864	0.82	0.78	0.53	6.17
	Asian	778	0.86	0.84	0.61	6.32
	Native Hawaiian/Pacific Islander	51	0.83	0.81	0.60	6.17
	Black/African American	4,706	0.82	0.78	0.58	6.23
	American Indian	54	0.83	0.79	0.58	5.99
	White	37,709	0.83	0.80	0.56	6.23
	Other	1,668	0.83	0.79	0.56	6.15
	Missing	10	0.32	0.57	-.26	5.80
Migrant	Non-Migrant	47,703	0.84	0.81	0.57	6.23

¹⁰ Alternate K-PREP students are not included.

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
	Migrant	137	0.79	0.74	0.50	6.08
LEP	Non-LEP	46,469	0.84	0.81	0.57	6.23
	LEP	1,371	0.75	0.69	0.49	6.27
Economic Disadvantage	Free Lunch	26,779	0.82	0.78	0.56	6.17
	Reduced-Price Lunch	2,730	0.83	0.79	0.57	6.20
	Regular Lunch	18,331	0.82	0.80	0.53	6.24
IEP	Non-IEP	41,764	0.83	0.80	0.56	6.21
	IEP	6,076	0.84	0.80	0.62	6.35

Grade 5 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,810	0.84	0.82	0.45	6.07
Gender	Female	24,087	0.83	0.81	0.42	6.09
	Male	24,723	0.84	0.83	0.44	6.04
Ethnicity	Hispanic	2,672	0.81	0.79	0.44	6.11
	Asian	820	0.86	0.85	0.45	6.07
	Native Hawaiian/Pacific Islander	44	0.83	0.81	0.53	6.01
	Black/African American	4,865	0.81	0.79	0.42	6.11
	American Indian	56	0.89	0.86	0.63	6.09
	White	38,896	0.83	0.82	0.44	6.06
	Other	1,448	0.84	0.82	0.43	6.09
	Missing	9	--	--	--	--
Migrant	Non-Migrant	48,645	0.84	0.82	0.45	6.07
	Migrant	165	0.82	0.80	0.42	6.22
LEP	Non-LEP	47,850	0.84	0.82	0.44	6.07
	LEP	960	0.75	0.71	0.42	6.22
Economic Disadvantage	Free Lunch	26,835	0.82	0.79	0.43	6.08
	Reduced-Price Lunch	2,772	0.82	0.81	0.39	6.01
	Regular Lunch	19,203	0.82	0.81	0.40	6.04
IEP	Non-IEP	43,003	0.83	0.81	0.41	6.06
	IEP	5,807	0.83	0.80	0.51	6.14

Grade 6 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,751	0.86	0.84	0.58	5.49
Gender	Female	24,110	0.86	0.83	0.55	5.49
	Male	24,641	0.86	0.83	0.59	5.47
Ethnicity	Hispanic	2,596	0.85	0.82	0.58	5.47
	Asian	804	0.86	0.84	0.54	5.54
	Native Hawaiian/Pacific Islander	38	0.88	0.85	0.62	5.31
	Black/African American	5,057	0.84	0.81	0.57	5.51
	American Indian	56	0.86	0.83	0.51	5.42
	White	38,833	0.85	0.83	0.57	5.48

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
	Other	1,361	0.86	0.83	0.56	5.49
	Missing	6	--	--	--	--
Migrant	Non-Migrant	48,636	0.86	0.84	0.58	5.49
	Migrant	115	0.82	0.78	0.58	5.52
LEP	Non-LEP	47,987	0.86	0.83	0.57	5.49
	LEP	764	0.75	0.70	0.57	5.61
Economic Disadvantage	Free Lunch	26,590	0.84	0.81	0.57	5.49
	Reduced-Price Lunch	2,824	0.84	0.81	0.55	5.46
	Regular Lunch	19,337	0.84	0.82	0.51	5.46
IEP	Non-IEP	43,352	0.85	0.82	0.54	5.47
	IEP	5,399	0.84	0.80	0.63	5.58

Grade 7 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,453	0.86	0.83	0.59	5.67
Gender	Female	23,606	0.85	0.83	0.53	5.67
	Male	24,847	0.86	0.84	0.61	5.65
Ethnicity	Hispanic	2,478	0.84	0.81	0.58	5.67
	Asian	694	0.86	0.84	0.53	5.79
	Native Hawaiian/Pacific Islander	37	0.84	0.81	0.68	5.39
	Black/African American	5,175	0.84	0.80	0.59	5.70
	American Indian	58	0.85	0.82	0.65	5.54
	White	38,687	0.85	0.83	0.58	5.66
	Other	1,321	0.84	0.81	0.59	5.67
	Missing	3	--	--	--	--
Migrant	Non-Migrant	48,328	0.86	0.83	0.59	5.67
	Migrant	125	0.77	0.73	0.58	5.49
LEP	Non-LEP	47,615	0.85	0.83	0.58	5.67
	LEP	838	0.73	0.67	0.52	5.77
Economic Disadvantage	Free Lunch	26,259	0.84	0.81	0.58	5.63
	Reduced-Price Lunch	2,746	0.84	0.81	0.54	5.60
	Regular Lunch	19,448	0.84	0.82	0.54	5.69
IEP	Non-IEP	43,608	0.85	0.82	0.55	5.66
	IEP	4,845	0.82	0.79	0.63	5.70

Grade 8 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	49,143	0.86	0.85	0.55	5.70
Gender	Female	24,137	0.85	0.84	0.52	5.71
	Male	25,006	0.87	0.85	0.56	5.67
Ethnicity	Hispanic	2,304	0.86	0.84	0.55	5.68
	Asian	734	0.91	0.90	0.60	6.00
	Native Hawaiian/Pacific Islander	52	0.89	0.88	0.60	5.71

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
	Black/African American	5,072	0.84	0.82	0.57	5.72
	American Indian	50	0.86	0.85	0.62	5.63
	White	39,688	0.86	0.84	0.54	5.68
	Other	1,238	0.86	0.84	0.52	5.68
	Missing	5	--	--	--	--
Migrant	Non-Migrant	49,026	0.86	0.85	0.55	5.70
	Migrant	117	0.83	0.81	0.50	5.75
LEP	Non-LEP	48,271	0.86	0.85	0.55	5.70
	LEP	872	0.79	0.76	0.53	5.81
Economic Disadvantage	Free Lunch	25,785	0.85	0.83	0.55	5.66
	Reduced-Price Lunch	2,845	0.85	0.83	0.52	5.62
	Regular Lunch	20,513	0.85	0.83	0.50	5.72
IEP	Non-IEP	44,447	0.85	0.84	0.52	5.69
	IEP	4,696	0.83	0.80	0.61	5.73

Grade 3 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,894	0.90	0.89	0.59	6.24
Gender	Female	23,929	0.90	0.89	0.58	6.24
	Male	24,965	0.91	0.90	0.60	6.23
Ethnicity	Hispanic	3,244	0.89	0.88	0.57	5.93
	Asian	784	0.91	0.91	0.59	7.02
	Native Hawaiian/Pacific Islander	43	0.90	0.88	0.68	5.83
	Black/African American	4,786	0.89	0.88	0.56	5.88
	American Indian	58	0.89	0.87	0.59	7.21
	White	38,118	0.90	0.89	0.59	6.27
	Other	1,859	0.90	0.89	0.58	6.15
	Missing	2	--	--	--	--
Migrant	Non-Migrant	48,739	0.91	0.89	0.59	6.24
	Migrant	155	0.88	0.86	0.52	5.88
LEP	Non-LEP	46,626	0.91	0.89	0.59	6.25
	LEP	2,268	0.88	0.86	0.55	5.82
Economic Disadvantage	Free Lunch	28,331	0.89	0.88	0.58	6.00
	Reduced-Price Lunch	2,675	0.90	0.88	0.57	6.12
	Regular Lunch	17,888	0.90	0.89	0.55	6.57
IEP	Non-IEP	42,312	0.90	0.89	0.57	6.31
	IEP	6,582	0.90	0.89	0.66	6.04

Grade 4 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,181	0.90	0.89	0.67	5.82
Gender	Female	23,700	0.90	0.88	0.67	5.82
	Male	24,481	0.91	0.89	0.68	5.81

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
Ethnicity	Hispanic	2,885	0.89	0.87	0.63	5.65
	Asian	789	0.92	0.91	0.69	6.29
	Native Hawaiian/Pacific Islander	51	0.91	0.89	0.71	5.82
	Black/African American	4,769	0.89	0.87	0.65	5.44
	American Indian	56	0.90	0.89	0.56	5.35
	White	37,938	0.90	0.89	0.67	5.85
	Other	1,683	0.90	0.88	0.65	5.74
	Missing	10	0.59	0.51	0.41	5.31
Migrant	Non-Migrant	48,044	0.90	0.89	0.67	5.82
	Migrant	137	0.87	0.85	0.60	5.42
LEP	Non-LEP	46,774	0.90	0.89	0.67	5.83
	LEP	1,407	0.86	0.84	0.61	5.45
Economic Disadvantage	Free Lunch	27,133	0.89	0.87	0.65	5.59
	Reduced-Price Lunch	2,746	0.89	0.88	0.64	5.75
	Regular Lunch	18,302	0.90	0.89	0.64	6.06
IEP	Non-IEP	41,924	0.90	0.88	0.65	5.85
	IEP	6,257	0.89	0.87	0.74	5.69

Grade 5 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	49,005	0.91	0.90	0.66	5.92
Gender	Female	24,152	0.91	0.89	0.65	5.89
	Male	24,853	0.92	0.91	0.67	5.94
Ethnicity	Hispanic	2,677	0.89	0.87	0.60	5.67
	Asian	832	0.93	0.92	0.68	6.52
	Native Hawaiian/Pacific Islander	44	0.92	0.91	0.64	6.59
	Black/African American	4,883	0.89	0.87	0.60	5.58
	American Indian	57	0.91	0.90	0.71	5.74
	White	39,055	0.91	0.90	0.66	5.93
	Other	1,449	0.91	0.90	0.65	5.86
	Missing	8	--	--	--	--
Migrant	Non-Migrant	48,838	0.91	0.90	0.66	5.92
	Migrant	167	0.87	0.85	0.50	5.56
LEP	Non-LEP	48,035	0.91	0.90	0.66	5.92
	LEP	970	0.86	0.84	0.54	5.55
Economic Disadvantage	Free Lunch	26,963	0.90	0.88	0.62	5.65
	Reduced-Price Lunch	2,775	0.90	0.89	0.62	5.83
	Regular Lunch	19,267	0.91	0.90	0.64	6.18
IEP	Non-IEP	43,162	0.91	0.90	0.64	5.95
	IEP	5,843	0.89	0.87	0.72	5.76

Grade 6 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,418	0.90	0.88	0.67	5.43
Gender	Female	23,992	0.90	0.88	0.66	5.44
	Male	24,426	0.90	0.89	0.67	5.42
Ethnicity	Hispanic	2,581	0.88	0.86	0.64	5.27
	Asian	801	0.92	0.91	0.66	5.85
	Native Hawaiian/Pacific Islander	40	0.93	0.92	0.68	5.67
	Black/African American	5,012	0.88	0.85	0.68	5.32
	American Indian	58	0.88	0.87	0.59	5.38
	White	38,573	0.90	0.88	0.65	5.43
	Other	1,347	0.90	0.88	0.68	5.44
	Missing	6	--	--	--	--
Migrant	Non-Migrant	48,304	0.90	0.88	0.67	5.43
	Migrant	114	0.88	0.85	0.64	5.13
LEP	Non-LEP	47,649	0.90	0.88	0.66	5.44
	LEP	769	0.85	0.82	0.66	5.20
Economic Disadvantage	Free Lunch	26,400	0.88	0.85	0.66	5.28
	Reduced-Price Lunch	2,808	0.89	0.87	0.63	5.31
	Regular Lunch	19,210	0.90	0.89	0.62	5.56
IEP	Non-IEP	43,024	0.90	0.88	0.63	5.43
	IEP	5,394	0.87	0.83	0.74	5.32

Grade 7 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	47,750	0.90	0.89	0.63	5.40
Gender	Female	23,353	0.90	0.88	0.61	5.38
	Male	24,397	0.91	0.89	0.65	5.41
Ethnicity	Hispanic	2,424	0.88	0.86	0.61	5.28
	Asian	695	0.93	0.92	0.67	5.74
	Native Hawaiian/Pacific Islander	36	0.86	0.84	0.59	5.10
	Black/African American	5,009	0.87	0.84	0.61	5.28
	American Indian	55	0.89	0.87	0.65	5.32
	White	38,236	0.90	0.89	0.62	5.40
	Other	1,293	0.89	0.87	0.61	5.41
	Missing	2	--	--	--	--
Migrant	Non-Migrant	47,628	0.90	0.89	0.63	5.40
	Migrant	122	0.85	0.83	0.60	5.23
LEP	Non-LEP	46,931	0.90	0.89	0.63	5.40
	LEP	819	0.82	0.78	0.58	5.32
Economic Disadvantage	Free Lunch	25,754	0.88	0.86	0.60	5.29
	Reduced-Price Lunch	2,701	0.89	0.87	0.59	5.30
	Regular Lunch	19,295	0.90	0.89	0.60	5.49

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
IEP	Non-IEP	43,032	0.90	0.88	0.61	5.39
	IEP	4,718	0.85	0.81	0.68	5.40

Grade 8 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,184	0.90	0.88	0.68	5.41
Gender	Female	23,792	0.90	0.87	0.67	5.40
	Male	24,392	0.91	0.89	0.69	5.41
Ethnicity	Hispanic	2,252	0.89	0.86	0.63	5.25
	Asian	728	0.93	0.93	0.72	5.90
	Native Hawaiian/Pacific Islander	51	0.92	0.91	0.63	5.70
	Black/African American	4,885	0.86	0.83	0.63	5.20
	American Indian	51	0.93	0.91	0.82	5.64
	White	39,011	0.90	0.88	0.68	5.41
	Other	1,201	0.89	0.87	0.69	5.31
	Missing	5	0.94	0.92	0.80	5.38
Migrant	Non-Migrant	48,065	0.90	0.88	0.68	5.41
	Migrant	119	0.89	0.86	0.69	5.25
LEP	Non-LEP	47,315	0.90	0.88	0.68	5.42
	LEP	869	0.85	0.81	0.62	5.21
Economic Disadvantage	Free Lunch	25,233	0.88	0.85	0.65	5.25
	Reduced-Price Lunch	2,800	0.88	0.86	0.63	5.26
	Regular Lunch	20,151	0.90	0.88	0.66	5.55
IEP	Non-IEP	43,554	0.90	0.88	0.66	5.42
	IEP	4,630	0.86	0.82	0.70	5.24

Grade 5 Social Studies

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	49,024	0.89	0.89	0.61	5.67
Gender	Female	24,142	0.88	0.87	0.61	5.75
	Male	24,882	0.90	0.90	0.61	5.57
Ethnicity	Hispanic	2,672	0.87	0.86	0.56	5.44
	Asian	821	0.90	0.90	0.67	6.41
	Native Hawaiian/Pacific Islander	43	0.88	0.87	0.55	6.79
	Black/African American	4,872	0.88	0.87	0.59	5.32
	American Indian	58	0.91	0.91	0.69	6.10
	White	39,093	0.89	0.89	0.59	5.68
	Other	1,456	0.89	0.88	0.61	5.60
	Missing	9	--	--	--	--
Migrant	Non-Migrant	48,860	0.89	0.89	0.61	5.67
	Migrant	164	0.89	0.88	0.54	5.67
LEP	Non-LEP	48,072	0.89	0.89	0.61	5.67
	LEP	952	0.85	0.83	0.54	5.25
Economic	Free Lunch	26,948	0.88	0.87	0.58	5.42

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
Disadvantage	Reduced-Price Lunch	2,783	0.88	0.88	0.57	5.59
	Regular Lunch	19,293	0.88	0.87	0.57	5.95
IEP	Non-IEP	43,236	0.88	0.88	0.58	5.73
	IEP	5,788	0.89	0.88	0.70	5.40

Grade 8 Social Studies

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	49,364	0.90	0.89	0.73	5.62
Gender	Female	24,248	0.89	0.88	0.71	5.67
	Male	25,116	0.91	0.90	0.73	5.54
Ethnicity	Hispanic	2,307	0.89	0.88	0.72	5.57
	Asian	737	0.92	0.91	0.84	6.14
	Native Hawaiian/Pacific Islander	54	0.90	0.89	0.70	6.49
	Black/African American	5,126	0.89	0.87	0.74	5.46
	American Indian	51	0.90	0.90	0.65	5.41
	White	39,853	0.90	0.89	0.72	5.61
	Other	1,231	0.90	0.89	0.74	5.59
	Missing	5	--	--	--	--
Migrant	Non-Migrant	49,245	0.90	0.89	0.73	5.62
	Migrant	119	0.88	0.87	0.76	5.41
LEP	Non-LEP	48,478	0.90	0.89	0.73	5.62
	LEP	886	0.82	0.79	0.70	5.40
Economic Disadvantage	Free Lunch	25,937	0.89	0.88	0.71	5.43
	Reduced-Price Lunch	2,860	0.89	0.88	0.70	5.61
	Regular Lunch	20,567	0.89	0.88	0.70	5.81
IEP	Non-IEP	44,602	0.89	0.88	0.70	5.65
	IEP	4,762	0.88	0.87	0.74	5.40

Grade 4 Language Mechanics¹¹

	Test Group	N	Alpha	SEM
All	Students Tested	49,458	0.85	16.7
Gender	Female	24,214	0.84	17.1
	Male	25,244	0.85	16.4
Ethnicity	Hispanic	2,987	0.83	18.9
	Asian	805	0.89	17.8
	Native Hawaiian/Pacific Islander	53	0.78	17.7
	Black/African American	5,000	0.85	16.2
	American Indian	56	0.86	14.8
	White	38,805	0.84	16.7
	Other	1,742	0.84	16.4
	Missing	10	0.70	14.0

¹¹ Language Mechanics is composed of multiple-choice items only.

	Test Group	N	Alpha	SEM
Migrant	Non-Migrant	49,319	0.85	16.8
	Migrant	139	0.82	15.4
LEP	Non-LEP	48,000	0.85	16.6
	LEP	1,458	0.81	25.3
Economic Disadvantage	Free Lunch	27,992	0.84	16.4
	Reduced-Price Lunch	2,811	0.82	16.6
	Regular Lunch	18,655	0.82	17.4
IEP	Non-IEP	42,992	0.83	17.1
	IEP	6,466	0.84	16.0

Grade 6 Language Mechanics

	Test Group	N	Alpha	SEM
All	Students Tested	49,439	0.85	16.4
Gender	Female	24,300	0.84	16.7
	Male	25,139	0.86	16.3
Ethnicity	Hispanic	2,652	0.84	17.8
	Asian	815	0.87	16.9
	Native Hawaiian/Pacific Islander	43	0.94	21.4
	Black/African American	5,216	0.84	15.9
	American Indian	58	0.84	15.7
	White	39,267	0.85	16.4
	Other	1,382	0.84	16.9
	Missing	6	--	--
Migrant	Non-Migrant	49,324	0.85	16.4
	Migrant	115	0.84	14.6
LEP	Non-LEP	48,621	0.85	16.3
	LEP	818	0.81	25.7
Economic Disadvantage	Free Lunch	27,107	0.84	16.0
	Reduced-Price Lunch	2,863	0.83	16.3
	Regular Lunch	19,469	0.83	17.1
IEP	Non-IEP	43,834	0.84	16.7
	IEP	5,605	0.81	15.9

Subdomain (Reporting Category)

Grade 3 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	49,562	0.86	0.68	0.59	0.50	0.66
Gender	Female	24,260	0.85	0.66	0.59	0.51	0.64
	Male	25,302	0.86	0.69	0.60	0.50	0.67
Ethnicity	Hispanic	3,286	0.83	0.65	0.53	0.44	0.62
	Asian	780	0.86	0.63	0.64	0.53	0.64
	Native Hawaiian/Pacific Islander	44	0.82	0.68	0.62	0.35	0.55
	Black/African American	4,853	0.85	0.69	0.50	0.48	0.67
	American Indian	60	0.87	0.71	0.56	0.57	0.62
	White	38,665	0.85	0.67	0.59	0.50	0.64
	Other	1,871	0.85	0.67	0.56	0.47	0.66
	Missing	3	--	--	--	--	--
Migrant	Non-Migrant	49,409	0.86	0.68	0.59	0.50	0.66
	Migrant	153	0.80	0.61	0.35	0.41	0.59
LEP	Non-LEP	47,279	0.86	0.68	0.59	0.51	0.66
	LEP	2,283	0.79	0.61	0.41	0.38	0.59
Economic Disadvantage	Free Lunch	28,696	0.85	0.67	0.54	0.48	0.65
	Reduced-Price Lunch	2,724	0.83	0.64	0.55	0.44	0.62
	Regular Lunch	18,142	0.84	0.64	0.59	0.48	0.59
IEP	Non-IEP	42,997	0.85	0.66	0.59	0.49	0.63
	IEP	6,565	0.87	0.70	0.57	0.51	0.70

Grade 4 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	47,840	0.84	0.60	0.55	0.58	0.54
Gender	Female	23,680	0.84	0.59	0.56	0.59	0.53
	Male	24,160	0.84	0.60	0.55	0.57	0.55
Ethnicity	Hispanic	2,864	0.82	0.55	0.54	0.54	0.47
	Asian	778	0.86	0.63	0.62	0.61	0.59
	Native Hawaiian/Pacific Islander	51	0.83	0.50	0.49	0.64	0.62
	Black/African American	4,706	0.82	0.61	0.51	0.55	0.47
	American Indian	54	0.83	0.66	0.39	0.63	0.47
	White	37,709	0.83	0.58	0.54	0.58	0.54
	Other	1,668	0.83	0.58	0.52	0.56	0.52
	Missing	10	0.32	-0.19	0.11	-0.13	0.52
Migrant	Non-Migrant	47,703	0.84	0.60	0.55	0.58	0.54
	Migrant	137	0.79	0.58	0.35	0.47	0.45
LEP	Non-LEP	46,469	0.84	0.59	0.55	0.58	0.54
	LEP	1,371	0.75	0.51	0.41	0.42	0.35
Economic	Free Lunch	26,779	0.82	0.59	0.50	0.53	0.50

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
Disadvantage	Reduced-Price Lunch	2,730	0.83	0.57	0.51	0.58	0.53
	Regular Lunch	18,331	0.82	0.54	0.54	0.58	0.52
IEP	Non-IEP	41,764	0.83	0.57	0.54	0.58	0.52
	IEP	6,076	0.84	0.63	0.53	0.53	0.57

Grade 5 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	48,810	0.84	0.69	0.46	0.46	0.61
Gender	Female	24,087	0.83	0.69	0.46	0.44	0.59
	Male	24,723	0.84	0.70	0.46	0.48	0.63
Ethnicity	Hispanic	2,672	0.81	0.65	0.38	0.40	0.59
	Asian	820	0.86	0.73	0.52	0.50	0.65
	Native Hawaiian/Pacific Islander	44	0.83	0.64	0.46	0.50	0.59
	Black/African American	4,865	0.81	0.62	0.43	0.42	0.57
	American Indian	56	0.89	0.72	0.58	0.59	0.72
	White	38,896	0.83	0.69	0.46	0.46	0.60
	Other	1,448	0.84	0.69	0.46	0.45	0.60
	Missing	9	--	--	--	--	--
Migrant	Non-Migrant	48,645	0.84	0.69	0.46	0.46	0.61
	Migrant	165	0.82	0.63	0.46	0.40	0.61
LEP	Non-LEP	47,850	0.84	0.69	0.46	0.46	0.61
	LEP	960	0.75	0.52	0.39	0.32	0.46
Economic Disadvantage	Free Lunch	26,835	0.82	0.65	0.43	0.41	0.59
	Reduced-Price Lunch	2,772	0.82	0.67	0.44	0.42	0.58
	Regular Lunch	19,203	0.82	0.69	0.43	0.46	0.56
IEP	Non-IEP	43,003	0.83	0.69	0.44	0.44	0.59
	IEP	5,807	0.83	0.64	0.48	0.44	0.60

Grade 6 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	48,751	0.86	0.60	0.62	0.54	0.66
Gender	Female	24,110	0.86	0.59	0.61	0.55	0.66
	Male	24,641	0.86	0.60	0.62	0.53	0.66
Ethnicity	Hispanic	2,596	0.85	0.57	0.61	0.50	0.62
	Asian	804	0.86	0.65	0.60	0.53	0.70
	Native Hawaiian/Pacific Islander	38	0.88	0.74	0.66	0.60	0.62
	Black/African American	5,057	0.84	0.56	0.58	0.49	0.62
	American Indian	56	0.86	0.69	0.58	0.54	0.69
	White	38,833	0.85	0.59	0.61	0.53	0.65
	Other	1,361	0.86	0.60	0.60	0.55	0.64
	Missing	6	--	--	--	--	--
Migrant	Non-Migrant	48,636	0.86	0.60	0.62	0.54	0.66
	Migrant	115	0.82	0.57	0.54	0.46	0.53
LEP	Non-LEP	47,987	0.86	0.60	0.61	0.54	0.65
	LEP	764	0.75	0.46	0.43	0.32	0.48
Economic Disadvantage	Free Lunch	26,590	0.84	0.57	0.59	0.50	0.61
	Reduced-Price Lunch	2,824	0.84	0.56	0.58	0.50	0.63
	Regular Lunch	19,337	0.84	0.57	0.59	0.53	0.63
IEP	Non-IEP	43,352	0.85	0.57	0.60	0.53	0.64
	IEP	5,399	0.84	0.58	0.56	0.47	0.62

Grade 7 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	48,453	0.86	0.56	0.59	0.56	0.67
Gender	Female	23,606	0.85	0.54	0.58	0.56	0.66
	Male	24,847	0.86	0.57	0.60	0.56	0.69
Ethnicity	Hispanic	2,478	0.84	0.52	0.55	0.55	0.63
	Asian	694	0.87	0.61	0.61	0.57	0.68
	Native Hawaiian/Pacific Islander	37	0.84	0.50	0.68	0.40	0.59
	Black/African American	5,175	0.84	0.55	0.53	0.54	0.61
	American Indian	58	0.85	0.44	0.45	0.54	0.69
	White	38,687	0.85	0.54	0.59	0.55	0.67
	Other	1,321	0.84	0.53	0.58	0.54	0.64
	Missing	3	--	--	--	--	--
Migrant	Non-Migrant	48,328	0.86	0.56	0.59	0.56	0.67
	Migrant	125	0.78	0.36	0.40	0.51	0.47
LEP	Non-LEP	47,615	0.86	0.55	0.59	0.56	0.67
	LEP	838	0.73	0.41	0.33	0.43	0.43
Economic Disadvantage	Free Lunch	26,259	0.84	0.54	0.55	0.53	0.64
	Reduced-Price Lunch	2,746	0.84	0.51	0.56	0.53	0.65
	Regular Lunch	19,448	0.84	0.50	0.57	0.53	0.65

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
IEP	Non-IEP	43,608	0.85	0.53	0.57	0.54	0.66
	IEP	4,845	0.82	0.54	0.49	0.50	0.61

Grade 8 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	49,143	0.86	0.66	0.56	0.55	0.70
Gender	Female	24,137	0.85	0.63	0.53	0.54	0.68
	Male	25,006	0.87	0.67	0.56	0.56	0.71
Ethnicity	Hispanic	2,304	0.86	0.65	0.56	0.51	0.69
	Asian	734	0.91	0.76	0.68	0.68	0.78
	Native Hawaiian/Pacific Islander	52	0.89	0.76	0.54	0.60	0.77
	Black/African American	5,072	0.84	0.65	0.54	0.44	0.67
	American Indian	50	0.86	0.56	0.46	0.63	0.75
	White	39,688	0.86	0.65	0.54	0.55	0.69
	Other	1,238	0.86	0.65	0.55	0.54	0.67
	Missing	5	--	--	--	--	--
Migrant	Non-Migrant	49,026	0.86	0.66	0.56	0.55	0.70
	Migrant	117	0.83	0.69	0.48	0.39	0.69
LEP	Non-LEP	48,271	0.86	0.66	0.55	0.55	0.69
	LEP	872	0.79	0.60	0.45	0.26	0.60
Economic Disadvantage	Free Lunch	25,785	0.85	0.65	0.53	0.48	0.68
	Reduced-Price Lunch	2,845	0.85	0.63	0.53	0.52	0.66
	Regular Lunch	20,513	0.85	0.61	0.52	0.56	0.66
IEP	Non-IEP	44,447	0.85	0.63	0.53	0.54	0.67
	IEP	4,696	0.83	0.63	0.47	0.42	0.64

Grade 3 Mathematics

	Test Group	N	Alpha	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data, Geometry
All	Students Tested	48,894	0.90	0.72	0.74	0.71	0.70
Gender	Female	23,929	0.90	0.70	0.74	0.70	0.69
	Male	24,965	0.91	0.73	0.74	0.73	0.70
Ethnicity	Hispanic	3,244	0.89	0.69	0.72	0.67	0.67
	Asian	784	0.91	0.73	0.76	0.75	0.71
	Native Hawaiian/Pacific Islander	43	0.90	0.72	0.74	0.78	0.52
	Black/African American	4,786	0.89	0.71	0.72	0.68	0.67
	American Indian	58	0.89	0.67	0.61	0.73	0.72
	White	38,118	0.90	0.71	0.73	0.72	0.69

	Test Group	N	Alpha	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data, Geometry
	Other	1,859	0.90	0.71	0.72	0.69	0.68
	Missing	2	--	--	--	--	--
Migrant	Non-Migrant	48,739	0.91	0.72	0.74	0.71	0.70
	Migrant	155	0.88	0.65	0.73	0.63	0.61
LEP	Non-LEP	46,626	0.91	0.72	0.74	0.72	0.70
	LEP	2,268	0.88	0.68	0.71	0.65	0.62
Economic Disadvantage	Free Lunch	28,331	0.89	0.70	0.72	0.68	0.67
	Reduced-Price Lunch	2,675	0.90	0.69	0.72	0.71	0.67
	Regular Lunch	17,888	0.90	0.68	0.71	0.71	0.68
IEP	Non-IEP	42,312	0.90	0.70	0.73	0.70	0.68
	IEP	6,582	0.90	0.72	0.73	0.70	0.70

Grade 4 Mathematics

	Test Group	N	Alpha	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data, Geometry
All	Students Tested	48,181	0.90	0.66	0.72	0.72	0.74
Gender	Female	23,700	0.90	0.65	0.72	0.71	0.73
	Male	24,481	0.91	0.67	0.73	0.74	0.75
Ethnicity	Hispanic	2,885	0.89	0.62	0.68	0.69	0.69
	Asian	789	0.92	0.69	0.76	0.76	0.79
	Native Hawaiian/Pacific Islander	51	0.91	0.72	0.70	0.76	0.73
	Black/African American	4,769	0.89	0.64	0.69	0.70	0.67
	American Indian	56	0.90	0.72	0.70	0.74	0.73
	White	37,938	0.90	0.65	0.72	0.72	0.74
	Other	1,683	0.90	0.64	0.71	0.70	0.73
	Missing	10	0.59	0.22	0.69	0.19	-0.65
Migrant	Non-Migrant	48,044	0.90	0.66	0.72	0.72	0.74
	Migrant	137	0.87	0.60	0.64	0.65	0.67
LEP	Non-LEP	46,774	0.90	0.66	0.72	0.72	0.74
	LEP	1,407	0.86	0.57	0.65	0.64	0.65
Economic Disadvantage	Free Lunch	27,133	0.89	0.63	0.70	0.69	0.69
	Reduced-Price Lunch	2,746	0.89	0.64	0.70	0.71	0.71
	Regular Lunch	18,302	0.90	0.63	0.71	0.71	0.75
IEP	Non-IEP	41,924	0.90	0.64	0.72	0.71	0.73
	IEP	6,257	0.89	0.67	0.70	0.70	0.70

Grade 5 Mathematics

	Test Group	N	Alpha	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data, Geometry
All	Students Tested	49,007	0.91	0.71	0.75	0.74	0.73
Gender	Female	24,152	0.91	0.70	0.74	0.73	0.71
	Male	24,855	0.92	0.72	0.76	0.75	0.75
Ethnicity	Hispanic	2,677	0.89	0.66	0.71	0.68	0.68
	Asian	832	0.93	0.76	0.76	0.78	0.77
	Native Hawaiian/Pacific Islander	44	0.92	0.72	0.75	0.79	0.77
	Black/African American	4,883	0.89	0.69	0.71	0.65	0.67
	American Indian	57	0.91	0.66	0.71	0.77	0.72
	White	39,057	0.91	0.71	0.75	0.74	0.73
	Other	1,449	0.91	0.70	0.73	0.73	0.73
	Missing	8	--	--	--	--	--
Migrant	Non-Migrant	48,840	0.91	0.71	0.75	0.74	0.73
	Migrant	167	0.87	0.63	0.71	0.55	0.61
LEP	Non-LEP	48,037	0.91	0.71	0.75	0.74	0.73
	LEP	970	0.86	0.60	0.66	0.58	0.65
Economic Disadvantage	Free Lunch	26,964	0.90	0.68	0.72	0.68	0.69
	Reduced-Price Lunch	2,775	0.90	0.69	0.73	0.73	0.71
	Regular Lunch	19,268	0.91	0.70	0.74	0.75	0.73
IEP	Non-IEP	43,162	0.91	0.70	0.74	0.74	0.71
	IEP	5,845	0.89	0.69	0.70	0.64	0.71

Grade 6 Mathematics

	Test Group	N	Alpha	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
All	Students Tested	48,418	0.90	0.68	0.60	0.67	0.71	0.61
Gender	Female	23,992	0.90	0.68	0.59	0.66	0.69	0.59
	Male	24,426	0.90	0.68	0.61	0.68	0.72	0.61
Ethnicity	Hispanic	2,581	0.88	0.64	0.56	0.62	0.66	0.55
	Asian	801	0.92	0.71	0.61	0.75	0.77	0.61
	Native Hawaiian/Pacific Islander	40	0.93	0.79	0.70	0.74	0.81	0.69
	Black/African American	5,012	0.88	0.63	0.61	0.58	0.58	0.54
	American Indian	58	0.88	0.60	0.66	0.59	0.67	0.51
	White	38,573	0.90	0.67	0.59	0.67	0.71	0.60
	Other	1,347	0.90	0.66	0.59	0.68	0.68	0.59
	Missing	6	--	--	--	--	--	--
Migrant	Non-Migrant	48,304	0.90	0.68	0.60	0.67	0.71	0.61

	Test Group	N	Alpha	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
	Migrant	114	0.88	0.60	0.56	0.60	0.63	0.55
LEP	Non-LEP	47,649	0.90	0.68	0.60	0.67	0.71	0.60
	LEP	769	0.85	0.58	0.56	0.57	0.53	0.52
Economic Disadvantage	Free Lunch	26,400	0.88	0.64	0.58	0.61	0.63	0.56
	Reduced-Price Lunch	2,808	0.89	0.63	0.56	0.65	0.68	0.57
	Regular Lunch	19,210	0.90	0.66	0.57	0.68	0.74	0.59
IEP	Non-IEP	43,024	0.90	0.66	0.59	0.67	0.70	0.59
	IEP	5,394	0.87	0.62	0.58	0.58	0.58	0.51

Grade 7 Mathematics

	Test Group	N	Alpha	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
All	Students Tested	47,750	0.90	0.65	0.66	0.65	0.66	0.65
Gender	Female	23,353	0.90	0.64	0.65	0.64	0.64	0.63
	Male	24,397	0.91	0.66	0.67	0.66	0.67	0.67
Ethnicity	Hispanic	2,424	0.88	0.59	0.62	0.63	0.61	0.61
	Asian	695	0.93	0.70	0.73	0.68	0.74	0.71
	Native Hawaiian/Pacific Islander	36	0.86	0.72	0.23	0.55	0.66	0.49
	Black/African American	5,009	0.87	0.56	0.55	0.61	0.53	0.60
	American Indian	55	0.89	0.67	0.66	0.60	0.55	0.54
	White	38,236	0.90	0.65	0.66	0.64	0.66	0.65
	Other	1,293	0.89	0.63	0.63	0.64	0.60	0.60
	Missing	2	--	--	--	--	--	--
Migrant	Non-Migrant	47,628	0.90	0.65	0.66	0.65	0.66	0.65
	Migrant	122	0.85	0.52	0.53	0.66	0.53	0.47
LEP	Non-LEP	46,931	0.90	0.65	0.66	0.65	0.66	0.65
	LEP	819	0.82	0.44	0.51	0.55	0.47	0.46
Economic Disadvantage	Free Lunch	25,754	0.88	0.59	0.60	0.62	0.58	0.62
	Reduced-Price Lunch	2,701	0.89	0.63	0.64	0.61	0.62	0.61
	Regular Lunch	19,295	0.90	0.66	0.67	0.63	0.67	0.62
IEP	Non-IEP	43,032	0.90	0.64	0.66	0.63	0.65	0.63
	IEP	4,718	0.85	0.52	0.57	0.58	0.52	0.56

Grade 8 Mathematics

	Test Group	N	Alpha	The Number System and Expressions & Equations	Functions	Geometry	Statistics and Probability
All	Students Tested	48,184	0.90	0.75	0.63	0.75	0.61
Gender	Female	23,792	0.90	0.74	0.62	0.74	0.59
	Male	24,392	0.91	0.76	0.64	0.77	0.64
Ethnicity	Hispanic	2,252	0.89	0.70	0.59	0.73	0.59
	Asian	728	0.93	0.82	0.72	0.82	0.70
	Native Hawaiian/Pacific Islander	51	0.92	0.76	0.64	0.82	0.72
	Black/African American	4,885	0.86	0.68	0.55	0.69	0.51
	American Indian	51	0.93	0.81	0.72	0.81	0.68
	White	39,011	0.90	0.75	0.63	0.75	0.61
	Other	1,201	0.89	0.74	0.62	0.75	0.58
	Missing	5	--	--	--	--	--
Migrant	Non-Migrant	48,065	0.90	0.75	0.63	0.75	0.61
	Migrant	119	0.89	0.72	0.59	0.72	0.52
LEP	Non-LEP	47,315	0.90	0.75	0.63	0.75	0.61
	LEP	869	0.85	0.64	0.51	0.68	0.49
Economic Disadvantage	Free Lunch	25,233	0.88	0.71	0.58	0.71	0.56
	Reduced-Price Lunch	2,800	0.88	0.71	0.59	0.73	0.58
	Regular Lunch	20,151	0.90	0.75	0.63	0.75	0.60
IEP	Non-IEP	43,554	0.90	0.74	0.62	0.74	0.60
	IEP	4,630	0.86	0.67	0.53	0.68	0.51

Grade 5 Social Studies

	Test Group	N	Alpha	Government and Civics	Cultures and Societies	Economics	Geography	Historical Perspective
All	Students Tested	49,024	0.89	0.63	0.57	0.60	0.55	0.74
Gender	Female	24,142	0.88	0.61	0.56	0.58	0.50	0.72
	Male	24,882	0.90	0.65	0.59	0.61	0.59	0.76
Ethnicity	Hispanic	2,672	0.87	0.56	0.55	0.55	0.47	0.72
	Asian	821	0.90	0.67	0.59	0.58	0.57	0.75
	Native Hawaiian/Pacific Islander	43	0.88	0.68	0.51	0.57	0.51	0.69
	Black/African American	4,872	0.88	0.59	0.59	0.60	0.46	0.72
	American Indian	58	0.91	0.65	0.52	0.65	0.61	0.77
	White	39,093	0.89	0.63	0.56	0.58	0.55	0.74
	Other	1,456	0.89	0.61	0.56	0.60	0.52	0.74
	Missing	9	--	--	--	--	--	--
Migrant	Non-Migrant	48,860	0.89	0.63	0.57	0.60	0.55	0.74

	Test Group	N	Alpha	Government and Civics	Cultures and Societies	Economics	Geography	Historical Perspective
	Migrant	164	0.89	0.62	0.59	0.56	0.52	0.72
LEP	Non-LEP	48,072	0.89	0.63	0.57	0.59	0.55	0.74
	LEP	952	0.85	0.51	0.53	0.51	0.37	0.65
Economic Disadvantage	Free Lunch	26,948	0.88	0.60	0.57	0.59	0.51	0.72
	Reduced-Price Lunch	2,783	0.88	0.60	0.56	0.56	0.52	0.73
	Regular Lunch	19,293	0.88	0.61	0.51	0.53	0.53	0.72
IEP	Non-IEP	43,236	0.88	0.61	0.54	0.57	0.53	0.73
	IEP	5,788	0.89	0.61	0.62	0.63	0.56	0.72

Grade 8 Social Studies

	Test Group	N	Alpha	Government and Civics	Cultures and Societies	Economics	Geography	Historical Perspective
All	Students Tested	49,364	0.90	0.74	0.55	0.59	0.56	0.72
Gender	Female	24,248	0.89	0.72	0.52	0.56	0.54	0.68
	Male	25,116	0.91	0.76	0.58	0.61	0.59	0.75
Ethnicity	Hispanic	2,307	0.89	0.71	0.50	0.58	0.55	0.69
	Asian	737	0.92	0.78	0.61	0.66	0.63	0.77
	Native Hawaiian/Pacific Islander	54	0.90	0.71	0.53	0.63	0.56	0.71
	Black/African American	5,126	0.89	0.69	0.53	0.59	0.49	0.66
	American Indian	51	0.90	0.74	0.54	0.61	0.48	0.73
	White	39,853	0.90	0.74	0.54	0.57	0.55	0.71
	Other	1,231	0.90	0.72	0.53	0.58	0.53	0.72
	Missing	5	--	--	--	--	--	--
Migrant	Non-Migrant	49,245	0.90	0.74	0.55	0.59	0.56	0.72
	Migrant	119	0.88	0.69	0.41	0.57	0.61	0.65
LEP	Non-LEP	48,478	0.90	0.74	0.54	0.58	0.56	0.72
	LEP	886	0.82	0.54	0.41	0.47	0.42	0.53
Economic Disadvantage	Free Lunch	25,937	0.89	0.72	0.53	0.58	0.52	0.69
	Reduced-Price Lunch	2,860	0.89	0.72	0.53	0.57	0.53	0.70
	Regular Lunch	20,567	0.89	0.71	0.50	0.53	0.53	0.70
IEP	Non-IEP	44,602	0.89	0.72	0.51	0.56	0.54	0.70
	IEP	4,762	0.88	0.67	0.49	0.55	0.50	0.67

Appendix O. Scoring Metrics for K-PREP Constructed-Response Items

Subject	Grade	Item Type	Validity ¹²		Reliability		Score Distribution										
			Perfect	Non-Adj	Perfect	Non-Adj	0	1	2	3	4	B	A	F	I	O	
Reading	3	SA	89 93	2 0	80 81	1 3	44 37	32 41	22 21	-	-	1	0	0	0	0	
		SA	89 0	0 0	80 72	0 0	18 36	44 44	36 17	-	-	1	0	0	0	0	
	4	SA	87 0	1 0	82 89	3 0	57 76	26 19	16 3	-	-	1	0	0	0	0	
		ER	90 0	2 0	76 65	5 8	33 38	13 23	28 20	12 5	12 6	1	0	0	0	1	
		SA	89 87	0 0	80 71	1 0	22 25	39 42	37 33	-	-	1	0	0	0	0	
	5	SA	88 0	0 0	80 88	2 0	62 67	23 25	15 6	-	-	0	0	0	0	0	
		ER	93 85	0 0	75 78	0 0	12 9	48 51	35 35	3 3	0 0	1	0	0	0	0	
		SA	90 0	0 0	80 89	0 0	8 12	73 79	18 6	-	-	0	0	0	0	0	
	6	SA ¹³	99	0	91	0	17	49	33	-	-	1	0	0	0	0	
		ER	77 0	4 0	66 71	7 0	20 15	32 40	38 31	5 7	4 3	1	0	0	0	0	
		SA	89 0	1 0	80 82	1 0	36 16	28 25	35 58	-	-	0	0	0	0	0	
	7	SA	88 0	0 0	81 82	0 0	10 17	56 63	34 19	-	-	0	0	0	0	0	
		ER	83 0	2 0	67 74	2 2	11 38	22 27	37 11	21 12	9 10	1	0	0	0	0	
		SA	88 0	0 0	85 80	0 0	23 30	50 44	26 34	-	-	1	0	0	0	0	
	8	SA	95 0	0 0	83 86	1 2	21 17	38 31	40 51	-	-	0	0	0	0	0	
		ER	83 0	3 0	61 57	6 14	28 13	21 17	25 23	10 22	14 23	1	0	0	0	0	
		SA	82 0	0 0	82 71	1 0	33 30	50 46	16 24	-	-	1	0	0	0	1	
	Mathematics	3	SA	95 98	0 0	93 93	0 0	41 46	12 11	45 41	-	-	2	0	0	0	0
			SA	93 95	1 0	85 85	0 0	26 26	63 67	9 6	-	-	2	0	0	0	0
			SA	98 0	0 0	93 91	0 1	19 28	32 28	48 43	-	-	1	0	0	0	0
		4	SA	99	0	92	0	40	33	26	-	-	1	0	0	0	0

¹² Validity statistics (highlighted in blue) are captured for items' most recent *operational* use, except for Writing.

¹³ This item was used as operational for first time in spring 2015.

			99	0	94	4	48	33	18									
		SA	96	0	85	0	22	48	29	-	-	1	0	0	0	0	0	0
		ER	91	1	80	0	12	40	21	6	19	2	0	0	0	0	0	0
		SA	95	0	93	0	63	17	18	-	-	1	0	0	0	0	0	0
	5	SA	94	1	83	1	52	23	24	-	-	1	0	0	0	0	0	0
		SA	91	0	80	0	32	40	28	-	-	1	0	0	0	0	0	0
		ER	90	0	83	1	8	63	13	9	5	1	0	0	0	0	0	0
		SA	90	0	82	0	41	30	28	-	-	1	0	0	0	0	0	0
	6	SA	99	0	93	0	12	35	52	-	-	1	0	0	0	0	0	0
		SA	97	0	91	0	27	55	16	-	-	1	0	0	0	0	0	0
		ER	86	0	70	2	34	28	15	12	9	2	0	0	0	0	0	0
		SA	92	0	87	1	39	37	23	-	-	1	0	0	0	0	0	0
	7	SA	95	0	90	0	37	51	11	-	-	1	0	0	0	0	0	0
		SA	92	0	81	2	42	20	36	-	-	1	0	0	0	0	0	0
		ER	85	1	74	2	36	29	17	13	4	1	0	0	0	0	0	0
		SA	98	0	92	0	64	17	19	-	-	1	0	0	0	0	0	0
	8	SA	97	0	89	0	40	21	37	-	-	1	0	0	0	0	0	0
		SA	94	0	86	1	72	14	13	-	-	1	0	0	0	0	0	0
		ER	89	1	75	1	9	37	19	19	13	3	0	0	0	0	0	0
		SA	93	0	82	2	38	25	36	-	-	1	0	0	0	0	0	0
Social Studies	5	ER	86	0	69	0	8	15	37	30	8	0	0	0	0	0	0	
		ER	76	3	69	0	30	25	24	14	6	1	0	0	0	0	0	
		ER	66	2	67	0	19	35	31	12	3	0	0	0	0	0	0	
	8	ER	82	1	64	0	2	6	29	43	19	1	0	0	0	0	0	0
		ER	77	0	63	1	4	16	39	32	8	1	0	0	0	0	0	0
		ER	75	1	65	0	4	8	38	36	14	1	0	0	0	0	0	0
On Demand Writing	5	Prompt	86	0	65	1	-	12	53	31	4	0	0	0	0	0	0	
		Prompt	82	0	65	1	-	12	50	33	4	0	0	0	0	0	0	

	Prompt	88 0	0 0	65 71	1 0	-	11 16	49 65	33 16	6 2	0	0	0	0	0
6	Prompt	83 0	0 0	68 72	1 0	-	18 29	55 56	24 12	3 1	1	0	0	0	0
	Prompt	84 0	0 0	67 71	1 0	-	14 13	52 60	30 20	5 3	0	0	0	0	0
	Prompt	85 0	0 0	65 62	2 0	-	24 36	51 51	21 14	3 3	1	0	0	0	0
8	Prompt	85 0	0 0	65 70	1 0	-	10 13	41 42	37 32	11 6	1	0	0	0	0
	Prompt	86 0	0 0	65 60	0 0	-	9 15	45 44	40 33	7 6	0	0	0	0	0
	Prompt	85 0	0 0	65 65	1 0	-	17 13	46 47	30 33	6 6	1	0	0	0	1
10	Prompt	80 0	0 0	66 68	1 0	-	9 7	41 55	41 32	9 4	0	0	0	0	0
	Prompt	85 0	0 0	65 70	1 0	-	8 12	42 54	42 29	6 3	1	0	0	0	0
	Prompt	83 0	0 0	63 72	2 0	-	12 10	43 54	36 31	8 4	1	0	0	0	0
11	Prompt	82 0	0 0	66 66	1 0	-	5 10	30 44	49 34	16 10	0	0	0	0	0
	Prompt	87 0	0 0	65 71	1 0	-	8 11	37 47	44 36	9 5	1	0	0	0	0
	Prompt	86 0	0 0	65 66	1 0	-	10 12	37 36	42 42	9 10	1	0	0	0	1

Appendix P. On-Demand Writing Score Distribution and Rater Agreement

Prompt Type	Grade	Final Prompt Score								Condition Code					Rater Agreement		
		0	2	3	4	5	6	7	8	A	B	F	I	O	Perfect	Adjacent	Non-Adjacent
Passage-Based	5	1%	7%	8%	35%	20%	20%	6%	2%	0	99	2	6	145	65%	34%	1%
	6	1%	17%	15%	36%	16%	11%	3%	1%	1	137	1	8	140	65%	34%	2%
	8	1%	12%	10%	32%	18%	18%	6%	3%	4	173	0	21	360	65%	34%	1%
	10	1%	8%	8%	29%	20%	23%	8%	3%	2	475	0	5	117	63%	35%	2%
	11	2%	7%	6%	25%	18%	29%	9%	4%	0	448	0	7	258	65%	34%	1%
Choice	5	0%	7%	8%	37%	21%	20%	4%	1%	2	66	0	3	97	65%	34%	1%
	6	0%	11%	10%	40%	17%	16%	4%	1%	9	70	3	0	126	68%	31%	1%
	8	0%	6%	6%	30%	20%	24%	9%	4%	3	125	3	3	65	65%	34%	1%
	10	1%	5%	6%	29%	20%	28%	7%	3%	1	345	0	0	67	65%	34%	1%
	11	1%	5%	5%	23%	18%	32%	10%	6%	0	347	0	5	131	66%	33%	1%

A = Insufficient Amount to Score; B = Non-Response; F = Non-English; I = Illegible; O = Off-Topic

Appendix Q. Accuracy and Consistency¹⁴

Reading

Table 1. Accuracy Classification for Reading Grade 3

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16377	0.03810	0.00195	0.00001	70.48
Apprentice	0.04721	0.14673	0.06605	0.00040	
Proficient	0.00209	0.05761	0.25648	0.04574	
Distinguished	0.00000	0.00022	0.03587	0.13778	

Table 2. Accuracy Classification at Proficient Cut Point for Reading Grade 3

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16377	0.03810	0.00195	0.00001	87.17
Apprentice	0.04721	0.14673	0.06605	0.00040	
Proficient	0.00209	0.05761	0.25648	0.04574	
Distinguished	0.00000	0.00022	0.03587	0.13778	

Table 3. Consistency Classification for Reading Grade 3

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.15380	0.05695	0.01144	0.00009	60.34	0.46
Apprentice	0.05026	0.11154	0.07996	0.00313		
Proficient	0.00893	0.07075	0.20735	0.05003		
Distinguished	0.00009	0.00341	0.06159	0.13068		

Table 4. Accuracy Classification for Reading Grade 4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13710	0.03486	0.00088	0.00001	70.7
Apprentice	0.04958	0.18807	0.06612	0.00021	
Proficient	0.00132	0.06544	0.28380	0.04679	
Distinguished	0.00000	0.00009	0.02770	0.09803	

¹⁴ Alternate K-PREP students are not included.

Table 5. Accuracy Classification at Proficient Cut Point for Reading Grade 4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13710	0.03486	0.00088	0.00001	86.59
Apprentice	0.04958	0.18807	0.06612	0.00021	
Proficient	0.00132	0.06544	0.28380	0.04679	
Distinguished	0.00000	0.00009	0.02770	0.09803	

Table 6. Consistency Classification for Reading Grade 4

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.12947	0.05739	0.00772	0.00003	60.24	0.45
Apprentice	0.05169	0.14601	0.08430	0.00225		
Proficient	0.00682	0.08268	0.23337	0.04925		
Distinguished	0.00003	0.00238	0.05313	0.09351		

Table 7. Accuracy Classification for Reading Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13626	0.03074	0.00100	0.00001	70.48
Apprentice	0.04898	0.15985	0.06369	0.00028	
Proficient	0.00165	0.06133	0.28514	0.05556	
Distinguished	0.00000	0.00012	0.03187	0.12353	

Table 8. Accuracy Classification at Proficient Cut Point for Reading Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13626	0.03074	0.00100	0.00001	87.19
Apprentice	0.04898	0.15985	0.06369	0.00028	
Proficient	0.00165	0.06133	0.28514	0.05556	
Distinguished	0.00000	0.00012	0.03187	0.12353	

Table 9. Consistency Classification for Reading Grade 5

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.12893	0.05059	0.00829	0.00005	60.23	0.45
Apprentice	0.05039	0.12375	0.08237	0.00291		
Proficient	0.00753	0.07509	0.23253	0.05934		
Distinguished	0.00004	0.00261	0.05851	0.11708		

Table 10. Accuracy Classification for Reading Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16616	0.03491	0.00114	0.00001	72.8
Apprentice	0.05225	0.15707	0.05639	0.00005	
Proficient	0.00168	0.05767	0.29578	0.04490	
Distinguished	0.00000	0.00001	0.02299	0.10898	

Table 11. Accuracy Classification at Proficient Cut Point for Reading Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16616	0.03491	0.00114	0.00001	88.3
Apprentice	0.05225	0.15707	0.05639	0.00005	
Proficient	0.00168	0.05767	0.29578	0.04490	
Distinguished	0.00000	0.00001	0.02299	0.10898	

Table 12. Consistency Classification for Reading Grade 6

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.15590	0.05388	0.00782	0.00001	63.32	0.49
Apprentice	0.05583	0.12095	0.07176	0.00092		
Proficient	0.00835	0.07397	0.25213	0.04880		
Distinguished	0.00001	0.00086	0.04459	0.10422		

Table 13. Accuracy Classification for Reading Grade 7

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.14776	0.03369	0.00104	0.00001	71.94
Apprentice	0.04702	0.16112	0.05844	0.00012	
Proficient	0.00161	0.06162	0.28676	0.04749	
Distinguished	0.00000	0.00006	0.02955	0.12371	

Table 14. Accuracy Classification at Proficient Cut Point for Reading Grade 7

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.14776	0.03369	0.00104	0.00001	87.71
Apprentice	0.04702	0.16112	0.05844	0.00012	
Proficient	0.00161	0.06162	0.28676	0.04749	
Distinguished	0.00000	0.00006	0.02955	0.12371	

Table 15. Consistency Classification for Reading Grade 7

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.13957	0.05361	0.00795	0.00002	62	0.48
Apprentice	0.04940	0.12464	0.07580	0.00171		
Proficient	0.00739	0.07648	0.23847	0.05232		
Distinguished	0.00002	0.00177	0.05356	0.11727		

Table 16. Accuracy Classification for Reading Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16561	0.03402	0.00138	0.00001	71.17
Apprentice	0.04737	0.14762	0.06122	0.00027	
Proficient	0.00189	0.05882	0.26975	0.04852	
Distinguished	0.00000	0.00015	0.03463	0.12874	

Table 17. Accuracy Classification at Proficient Cut Point for Reading Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16561	0.03402	0.00138	0.00001	87.63
Apprentice	0.04737	0.14762	0.06122	0.00027	
Proficient	0.00189	0.05882	0.26975	0.04852	
Distinguished	0.00000	0.00015	0.03463	0.12874	

Table 18. Consistency Classification for Reading Grade 8

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.15649	0.05261	0.00933	0.00006	61.12	0.47
Apprentice	0.05013	0.11358	0.07774	0.00269		
Proficient	0.00819	0.07161	0.21960	0.05326		
Distinguished	0.00006	0.00281	0.06031	0.12153		

Mathematics

Table 19. Accuracy Classification for Mathematics Grade 3

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.14565	0.04158	0.00013	0.00000	76.92
Apprentice	0.04793	0.24435	0.05529	0.00000	
Proficient	0.00011	0.04251	0.27499	0.02514	
Distinguished	0.00000	0.00000	0.01814	0.10417	

Table 20. Accuracy Classification at Proficient Cut Point for Mathematics Grade 3

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.14565	0.04158	0.00013	0.00000	90.2
Apprentice	0.04793	0.24435	0.05529	0.00000	
Proficient	0.00011	0.04251	0.27499	0.02514	
Distinguished	0.00000	0.00000	0.01814	0.10417	

Table 21. Consistency Classification for Mathematics Grade 3

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.13282	0.06284	0.00214	0.00000	67.89	0.55
Apprentice	0.05905	0.20237	0.07003	0.00016		
Proficient	0.00181	0.06307	0.24395	0.02935		
Distinguished	0.00000	0.00016	0.03244	0.09980		

Table 22. Accuracy Classification for Mathematics Grade 4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.15426	0.04062	0.00019	0.00000	75.93
Apprentice	0.04955	0.22600	0.05800	0.00003	
Proficient	0.00015	0.04109	0.24992	0.02830	
Distinguished	0.00000	0.00001	0.02282	0.12908	

Table 23. Accuracy Classification at Proficient Cut Point for Mathematics Grade 4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.15426	0.04062	0.00019	0.00000	90.06
Apprentice	0.04955	0.22600	0.05800	0.00003	
Proficient	0.00015	0.04109	0.24992	0.02830	
Distinguished	0.00000	0.00001	0.02282	0.12908	

Table 24. Consistency Classification for Mathematics Grade 4

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.14074	0.06086	0.00262	0.00000	66.66	0.54
Apprentice	0.06104	0.18602	0.07277	0.00052		
Proficient	0.00217	0.06033	0.21613	0.03322		
Distinguished	0.00000	0.00052	0.03940	0.12366		

Table 25. Accuracy Classification for Mathematics Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.10068	0.03659	0.00006	0.00000	76.79
Apprentice	0.04342	0.26870	0.05106	0.00004	
Proficient	0.00006	0.04517	0.22707	0.03159	
Distinguished	0.00000	0.00002	0.02409	0.17146	

Table 26. Accuracy Classification at Proficient Cut Point for Mathematics Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.10068	0.03659	0.00006	0.00000	90.36
Apprentice	0.04342	0.26870	0.05106	0.00004	
Proficient	0.00006	0.04517	0.22707	0.03159	
Distinguished	0.00000	0.00002	0.02409	0.17146	

Table 27. Consistency Classification for Mathematics Grade 5

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.09152	0.05877	0.00135	0.00000	67.64	0.55
Apprentice	0.05145	0.22534	0.06591	0.00068		
Proficient	0.00118	0.06567	0.19505	0.03790		
Distinguished	0.00000	0.00071	0.03997	0.16450		

Table 28. Accuracy Classification for Mathematics Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.11490	0.03324	0.00001	0.00000	78.68
Apprentice	0.04591	0.32939	0.05175	0.00000	
Proficient	0.00001	0.04377	0.25739	0.02344	
Distinguished	0.00000	0.00000	0.01510	0.08507	

Table 29. Accuracy Classification at Proficient Cut Point for Mathematics Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.11490	0.03324	0.00001	0.00000	90.44
Apprentice	0.04591	0.32939	0.05175	0.00000	
Proficient	0.00001	0.04377	0.25739	0.02344	
Distinguished	0.00000	0.00000	0.01510	0.08507	

Table 30. Consistency Classification for Mathematics Grade 6

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.10622	0.05606	0.00052	0.00000	70.08	0.57
Apprentice	0.05412	0.28417	0.06702	0.00013		
Proficient	0.00049	0.06603	0.22899	0.02699		
Distinguished	0.00000	0.00013	0.02773	0.08139		

Table 31. Accuracy Classification for Mathematics Grade 7

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12737	0.03979	0.00002	0.00000	78.5
Apprentice	0.04325	0.33365	0.05153	0.00001	
Proficient	0.00002	0.04538	0.25024	0.02078	
Distinguished	0.00000	0.00000	0.01422	0.07375	

Table 32. Accuracy Classification at Proficient Cut Point for Mathematics Grade 7

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12737	0.03979	0.00002	0.00000	90.31
Apprentice	0.04325	0.33365	0.05153	0.00001	
Proficient	0.00002	0.04538	0.25024	0.02078	
Distinguished	0.00000	0.00000	0.01422	0.07375	

Table 33. Consistency Classification for Mathematics Grade 7

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.11769	0.06425	0.00072	0.00000	69.67	0.56
Apprentice	0.05234	0.28563	0.06613	0.00012		
Proficient	0.00061	0.06880	0.22286	0.02386		
Distinguished	0.00000	0.00013	0.02629	0.07056		

Table 34. Accuracy Classification for Mathematics Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.10757	0.03666	0.00002	0.00000	78.6
Apprentice	0.04139	0.32434	0.05159	0.00001	
Proficient	0.00002	0.04625	0.26830	0.02363	
Distinguished	0.00000	0.00000	0.01446	0.08578	

Table 35. Accuracy Classification at Proficient Cut Point for Mathematics Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.10757	0.03666	0.00002	0.00000	90.21
Apprentice	0.04139	0.32434	0.05159	0.00001	
Proficient	0.00002	0.04625	0.26830	0.02363	
Distinguished	0.00000	0.00000	0.01446	0.08578	

Table 36. Consistency Classification for Mathematics Grade 8

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.09924	0.06063	0.00074	0.00000	69.87	0.56
Apprentice	0.04912	0.27711	0.06678	0.00009		
Proficient	0.00063	0.06941	0.24022	0.02724		
Distinguished	0.00000	0.00009	0.02662	0.08208		

Social Studies**Table 37. Accuracy Classification for Social Studies Grade 5**

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.05946	0.01996	0.00004	0.00000	78.76
Apprentice	0.03067	0.22722	0.05351	0.00000	
Proficient	0.00008	0.05355	0.39250	0.03215	
Distinguished	0.00000	0.00000	0.02248	0.10838	

Table 38. Accuracy Classification at Proficient Cut Point for Social Studies Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.05946	0.01996	0.00004	0.00000	89.28
Apprentice	0.03067	0.22722	0.05351	0.00000	
Proficient	0.00008	0.05355	0.39250	0.03215	
Distinguished	0.00000	0.00000	0.02248	0.10838	

Table 39. Consistency Classification for Social Studies Grade 5

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.05631	0.03825	0.00133	0.00000	70.07	0.55
Apprentice	0.03281	0.19035	0.07544	0.00009		
Proficient	0.00109	0.07204	0.35070	0.03712		
Distinguished	0.00000	0.00009	0.04107	0.10332		

Table 40. Accuracy Classification for Social Studies Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.07772	0.01805	0.00001	0.00000	79.62
Apprentice	0.03115	0.23503	0.04992	0.00000	
Proficient	0.00002	0.04910	0.37259	0.03401	
Distinguished	0.00000	0.00000	0.02148	0.11090	

Table 41. Accuracy Classification at Proficient Cut Point for Social Studies Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.07772	0.01805	0.00001	0.00000	90.09
Apprentice	0.03115	0.23503	0.04992	0.00000	
Proficient	0.00002	0.04910	0.37259	0.03401	
Distinguished	0.00000	0.00000	0.02148	0.11090	

Table 42. Consistency Classification for Social Studies Grade 8

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.07373	0.03389	0.00062	0.00000	71.4	0.58
Apprentice	0.03457	0.20171	0.07115	0.00009		
Proficient	0.00059	0.06650	0.33294	0.03921		
Distinguished	0.00000	0.00008	0.03929	0.10563		

Language Mechanics

Table 43. Accuracy Classification for Language Mechanics Grade 4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.15137	0.05071	0.00502	0.00004	65.82
Apprentice	0.05168	0.13174	0.07673	0.00434	
Proficient	0.00315	0.04965	0.14748	0.04463	
Distinguished	0.00003	0.00308	0.05270	0.22764	

Table 44. Accuracy Classification at Proficient Cut Point for Language Mechanics Grade 4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.15137	0.05071	0.00502	0.00004	85.8
Apprentice	0.05168	0.13174	0.07673	0.00434	
Proficient	0.00315	0.04965	0.14748	0.04463	
Distinguished	0.00003	0.00308	0.05270	0.22764	

Table 45. Consistency Classification for Language Mechanics Grade 4

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.13603	0.06767	0.01917	0.00107	56.16	0.41
Apprentice	0.05743	0.09807	0.07744	0.01185		
Proficient	0.01171	0.05577	0.11046	0.04669		
Distinguished	0.00105	0.01368	0.07486	0.21706		

Table 46. Accuracy Classification for Language Mechanics Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.25079	0.06218	0.00731	0.00016	66.94
Apprentice	0.05546	0.11516	0.06326	0.00653	
Proficient	0.00427	0.04425	0.10008	0.04485	
Distinguished	0.00007	0.00375	0.03847	0.20340	

Table 47. Accuracy Classification at Proficient Cut Point for Language Mechanics Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.25079	0.06218	0.00731	0.00016	87.04
Apprentice	0.05546	0.11516	0.06326	0.00653	
Proficient	0.00427	0.04425	0.10008	0.04485	
Distinguished	0.00007	0.00375	0.03847	0.20340	

Table 48. Consistency Classification for Language Mechanics Grade 6

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.22633	0.07546	0.02048	0.00201	58.03	0.43
Apprentice	0.06706	0.08529	0.05881	0.01439		
Proficient	0.01533	0.04955	0.07458	0.04448		
Distinguished	0.00187	0.01506	0.05525	0.19406		

Appendix R. Principal Components Analysis—Scree Plots¹⁵

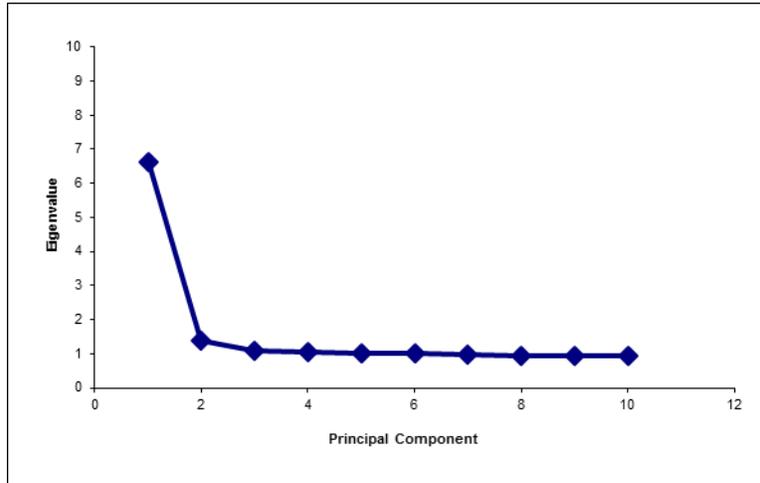


Figure 1. Reading Grade 3 Principal Components Scree Plot

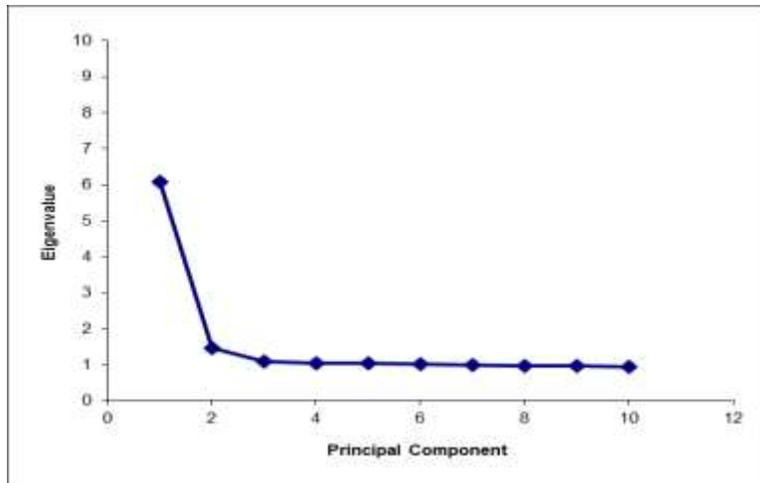


Figure 2. Reading Grade 4 Principal Components Scree Plot

¹⁵ The Alternate K-PREP assessment is not included.

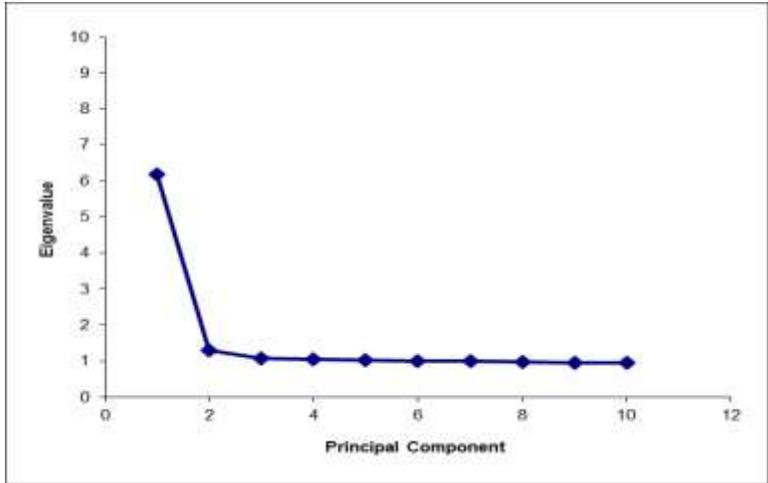


Figure 3. Reading Grade 5 Principal Components Scree Plot

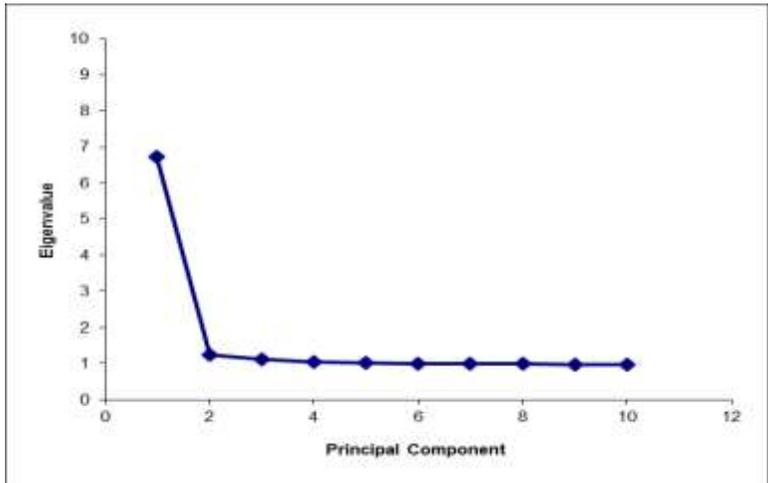


Figure 4. Reading Grade 6 Principal Components Scree Plot

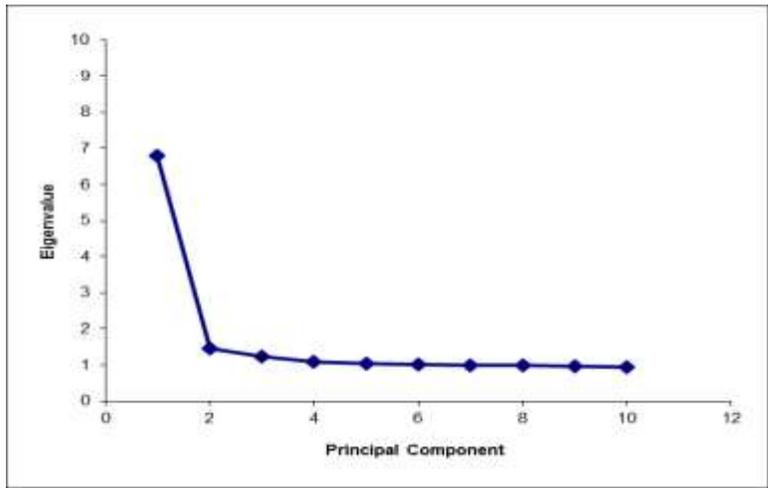


Figure 5. Reading Grade 7 Principal Components Scree Plot

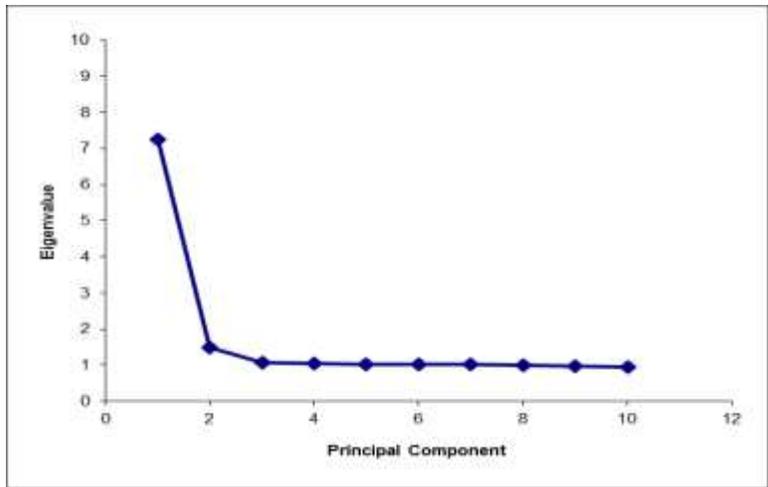


Figure 6. Reading Grade 8 Principal Components Scree Plot

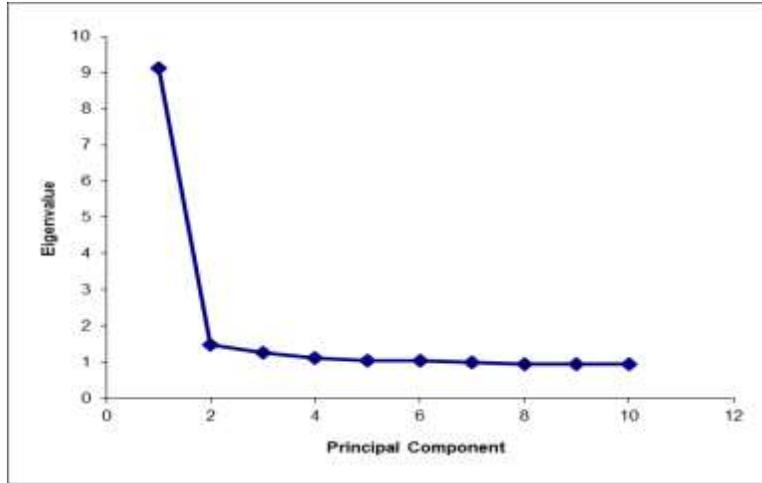


Figure 7. Mathematics Grade 3 Principal Components Scree Plot

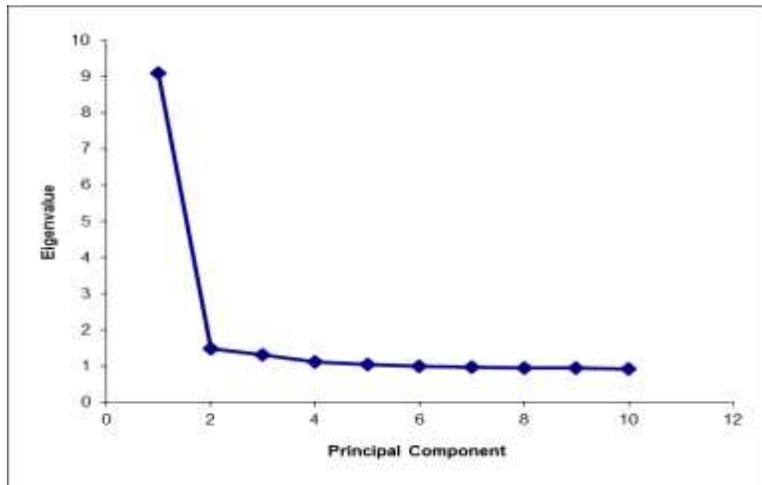


Figure 8. Mathematics Grade 4 Principal Components Scree Plot

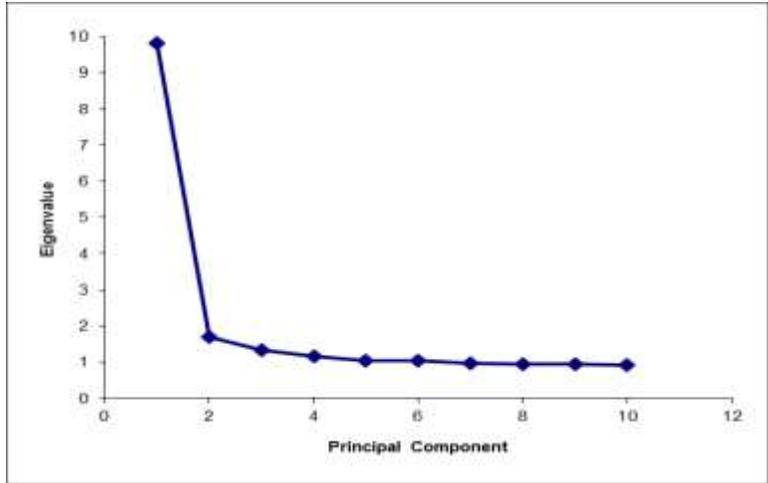


Figure 9. Mathematics Grade 5 Principal Components Scree Plot

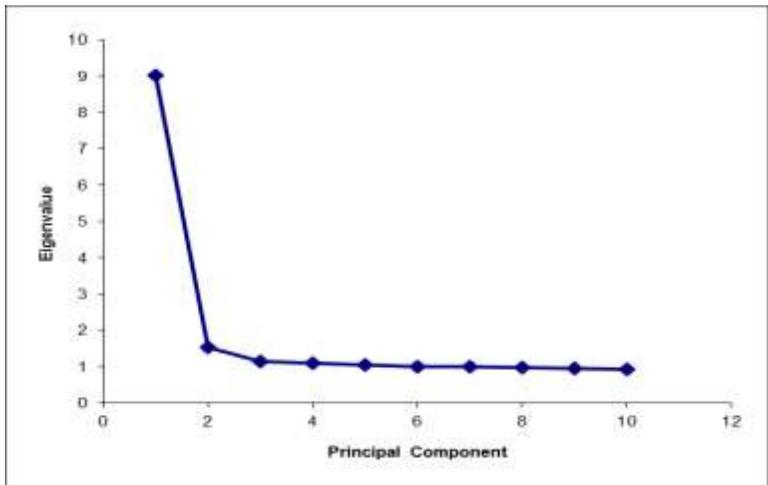


Figure 10. Mathematics Grade 6 Principal Components Scree Plot

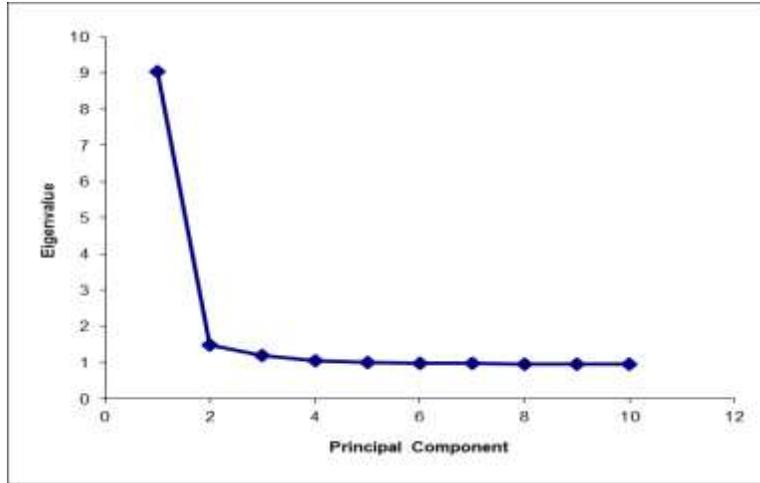


Figure 11. Mathematics Grade 7 Principal Components Scree Plot

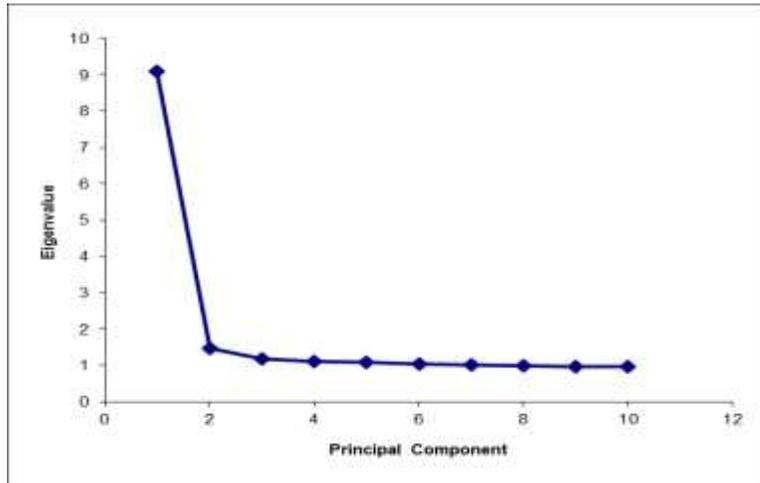


Figure 12. Mathematics Grade 8 Principal Components Scree Plot

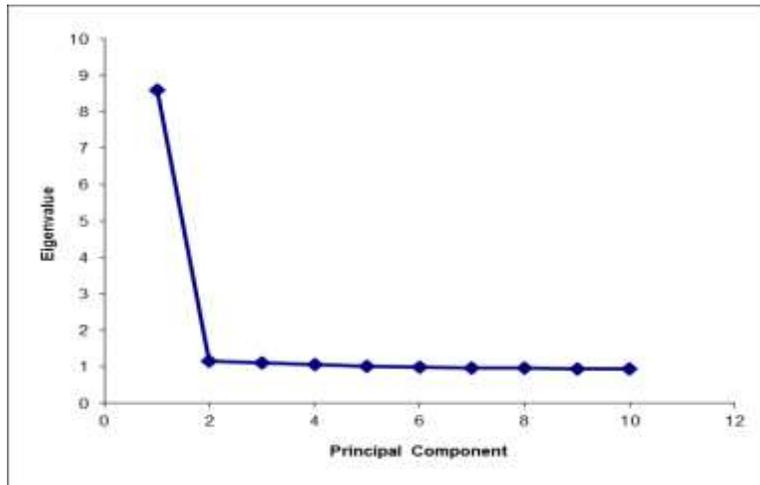


Figure 13. Social Studies Grade 5 Principal Components Scree Plot

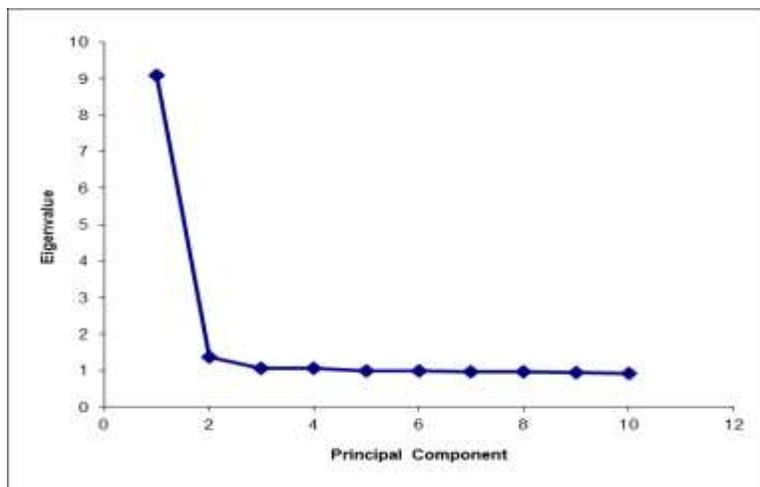


Figure 14. Social Studies Grade 8 Principal Components Scree Plot

Appendix S. Operational Constructed-Response Item Omit Rates

Reading

Grade	Item Type	Omit Rate
3	Short Answer	1%
	Short Answer	1%
4	Short Answer	1%
	Short Answer	0%
	Extended Response	1%
5	Short Answer	0%
	Short Answer	0%
	Extended Response	1%
6	Short Answer	0%
	Short Answer	0%
	Extended Response	1%
7	Short Answer	0%
	Short Answer	0%
	Extended Response	1%
8	Short Answer	1%
	Short Answer	1%
	Extended Response	1%

Mathematics

Grade	Item Type	Omit Rate
3	Short Answer	2%
	Short Answer	2%
	Short Answer	1%
4	Short Answer	1%
	Short Answer	1%
	Short Answer	1%
	Extended Response	1%
5	Short Answer	0%
	Short Answer	0%
	Short Answer	0%
	Extended Response	1%
6	Short Answer	0%
	Short Answer	1%
	Short Answer	0%
	Extended Response	1%
7	Short Answer	1%
	Short Answer	1%
	Short Answer	0%
	Extended Response	1%
8	Short Answer	1%
	Short Answer	1%
	Short Answer	1%
	Extended Response	2%

Social Studies

Grade	Item Type	Omit Rate
5	Extended Response	0%
	Extended Response	1%
	Extended Response	0%
8	Extended Response	0%
	Extended Response	1%
	Extended Response	0%